Rev A

SAFETY DATA SHEETS

Chromium Single Cell ATAC Reagent Kits

Chromium Next GEM Single Cell ATAC Library Kit v1.1, 16 rxns PN-1000163 Chromium Next GEM Single Cell ATAC Library Kit v1.1, 4 rxns PN-1000164

REAGENTS	PN
ATAC Buffer B	2000193
ATAC Enzyme	2000123/ 2000138
20X Nuclei Buffer	2000207
Barcoding Reagent B	2000194
Barcoding Enzyme	2000125/ 2000139
SI-PCR Primer B	2000128
Reducing Agent B	2000087
Amp Mix	2000047/ 2000103
Cleanup Buffer	2000088





OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Reviewed on 03/19/2019

1 Identification

- · Product Identifier
- · Trade Name: ATAC Buffer B
- · Product Number: 2000193
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: No further relevant information
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: 10X Genomics 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300
- Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

· Classification of the substance or mixture:

Health hazard

Carc. 1B H350 May cause cancer.

Repr. 1B H360 May damage fertility or the unborn child.



Eye Irrit. 2A H319 Causes serious eye irritation.

Flam. Liq. 4 H227 Combustible liquid.

- · Label elements:
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms:



· Signal word: Danger

- *Hazard-determining components of labeling:* Trade Secret
- · Hazard statements:
- H227 Combustible liquid.
- H319 Causes serious eye irritation.
- H350 May cause cancer.

H360 May damage fertility or the unborn child.

- Precautionary statements:
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from flames and hot surfaces. No smoking.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: ATAC Buffer B

P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
· Unknown acute	toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

• NFPA ratings (scale 0 - 4)

2 0 Health = 2 Fire = 0 Reactivity = 0

• HMIS-ratings (scale 0 - 4)

HEALTH*2Health = *2FIRE0Fire = 0REACTIVITY0Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:

Trade Secret

Flam. Liq. 3, H226;
Carc. 1B, H350; Repr. 1B, H360;
Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2A, H319

• Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· Description of first aid measures

· After inhalation:

In case of unconsciousness place patient stably in the side position for transportation.

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Get medical attention if symptoms occur.

• After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn.

Reviewed on 03/19/2019

15-35%



OSHA HazCom Standard 29 CFR 1910.1200(a) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: ATAC Buffer B

· After swallowing:

Rinse mouth with water. Never give anything by mouth to an unconscious person. If swallowed and symptoms occur, consult a doctor.

- · Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

• Extinguishing media

• Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

<u>Accidental Release Measures</u>

· Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing.

Do not inhale gases / fumes /aerosols

Keep away from ignition sources

· Environmental precautions: Do not allow to enter sewers/surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals · DAC-1.

PAC-1:	
Trade Secret	2 ppm
Trade Secret	12 mg/m³
Proprietary	6.9 mg/m ³
Trade Secret	11 mg/m³
PAC-2:	
Trade Secret	91 ppm
Trade Secret	130 mg/m ⁻
Proprietary	76 mg/m³
Trade Secret	120 mg/m ⁻
PAC-3:	
	530 ppm

Reviewed on 03/19/2019

(Contol. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: ATAC Buffer B

Trade Secret	790 mg/m³
Proprietary	460 mg/m³
Trade Secret	550 mg/m³
7 Handling and Storage	

· Handling

• Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep protective respiratory device available.

· Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

· Specific end use(s): No further relevant information available.

B Exposure Controls/Personal Protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters:

Trad	le Secret
PEL	Long-term value: 30 mg/m³, 10 ppm Skin
REL	Long-term value: 30 mg/m³, 10 ppm Skin
TLV	Long-term value: 15 mg/m³, 5 ppm Skin; BEI
Ingre	edients with biological limit values:
Trad	le Secret
	15 mg/L urine end of shift N-Methylformamide
	40 mg/L urine prior to last shift of workweek N-Acetyl-S-(N-methylcarbamoyl) cysteine (semi-quantitative)

• Exposure controls:

- Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work.



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: ATAC Buffer B

Store protective clothing separately. Avoid contact with the eyes.

- · Breathing equipment: Not required.
- Protection of hands: Not required.
- · Material of gloves: Not applicable.
- · Penetration time of glove material: Not applicable.
- Eye protection:



Safety glasses

vsical and Chemical Properties

 Information on basic physical and General Information 	chemical properties
· Appearance:	
Form:	Liquid
Color:	Clear, colorless
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	Not determined.
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not applicable
• Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
Density:	
Relative density:	Not determined.
Vapor density:	Not determined. Not determined.
Evaporation rate:	Not determined.
• Solubility in / Miscibility with:	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

Reviewed on 03/19/2019



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 03/19/2019

Issue date 03/28/2019

Trade Name: ATAC Buffer B

· Other information:

No further relevant information available.

<u>0 Stab</u>ility and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid:

Heat, flame and ignition sources.

Extreme Heat

- · Incompatible materials: Strong oxidizing agents, strong reducing agents
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- Information on toxicological effects:
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

Trade Secret

Oral	LD50	2,800 mg/kg (Rat)
Dermal	LD50	4,720 mg/kg (Rabbit)
Inhalative	LC50/4 h	9,400 mg/l (Mouse)

- Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: Irritating effect.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories:

- · IARC (International Agency for Research on Cancer):
- Group 1 Carcinogenic to humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly carcinogenic to humans
- Group 3 Not classifiable as to its carcinogenicity to humans
- Group 4 Probably not carcinogenic to humans

Trade Secret

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

2 Ecological Information

· Toxicity:

· Aquatic toxicity: No further relevant information available.

· Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.

2A



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 03/19/2019

Issue date 03/28/2019

Trade Name: ATAC Buffer B

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

3 Disposal Considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packaging

• **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information	
· UN-Number:	
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
UN proper shipping name:	
DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
 Transport hazard class(es): 	
· DOT, ADR/ADN, ADN, IMDG, IATA	
· Class:	Non-Regulated Material
· Packing group:	
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
 Environmental hazards: 	Not applicable.
 Special precautions for user: 	Not applicable.
 Transport in bulk according to Annex II 	of
MARPOL73/78 and the IBC Code:	Not applicable.
• UN "Model Regulation":	Non-Regulated Material

15 Regulatory Information

• Safety, health and environmental regulations/legislation specific for the substance or mixture: · SARA (Superfund Amendments and Reauthorization):

 Section 355 (extremely hazardous substances): 	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
Trade Secret	
• TSCA (Toxic Substances Control Act):	
Trade Secret	
Trade Secret	
Proprietary	
Trade Secret	
	(Contd. on page 8)



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Reviewed on 03/19/2019

Issue date 03/28/2019

Trade Name: ATAC Buffer B

Chemicals known to cause cancer:	
Trade Secret	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
New Jersey Right-to-Know List:	
Trade Secret	
New Jersey Special Hazardous Substance List:	
Trade Secret	TE, F
Pennsylvania Right-to-Know List:	
Trade Secret	
Pennsylvania Special Hazardous Substance List:	
None of the ingredients are listed.	
Carcinogenic categories:	
EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
TLV (Threshold Limit Value established by ACGIH):	
	A
Trade Secret	
Trade Secret NIOSH-Ca (National Institute for Occupational Safety and Health):	



· Signal word: Danger

- · Hazard-determining components of labeling: Trade Secret
- · Hazard statements:

H227 Combustible liquid.

H319 Causes serious eye irritation.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

· Precautionary statements:

- Obtain special instructions before use. P201
- P202 Do not handle until all safety precautions have been read and understood.
- Keep away from flames and hot surfaces. No smoking. P210
- Wash thoroughly after handling. P264



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: ATAC Buffer B

Reviewed on 03/19/2019

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision: 03/28/2019 / 2

Abbreviations and acronyms: ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit **BEI: Biological Exposure Limit** Flam. Liq. 3: Flammable liquids - Category 3 Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 4: Acute toxicity – Category 4 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Carc. 1B: Carcinogenicity - Category 1B Repr. 1B: Reproductive toxicity - Category 1B * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/05/2018

Reviewed on 10/05/2018

1 Identification

- · Product Identifier
- · Trade Name: ATAC Enzyme
- *Product Number:* 2000123
- 2000138
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Not relevant information.
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: 10X Genomics 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300
 Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

· Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

- · Label elements:
- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health $= 0$
		Fire = 0
	0	Physical Hazard = (

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of substances listed below with non-hazardous additions.
- · Dangerous Components:

Proprietary

30-60% (Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 10/05/2018

Issue date 10/05/2018

Trade Name: ATAC Enzyme

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Generally the product does not irritate with inhalation.
- · After skin contact:
- Wash with soap and water.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

If eye irritation occurs, consult a doctor.

· After swallowing:

Call a doctor if irritation or symptoms develop.

- Do not induce vomiting.
- Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
 Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures:* Avoid contact with skin, eyes and clothing.
- *Environmental precautions:* Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

- Reference to other sections: See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- · PAC-1:

Proprietary

45 mg/m³ (Contd. on page 3)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/05/2018

Reviewed on 10/05/2018

Trade Name: ATAC Enzyme

· PAC-2:	
Proprietary	180 mg/m³
· PAC-3:	
Proprietary	1,100 mg/m³

7 Handling and Storage

- · Handling
- · Precautions for safe handling: Avoid contact with skin, eyes and clothing
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

Proprietary

PEL Long-term value: 15* 5** mg/m³

mist; *total dust **respirable fraction

- TLV TLV withdrawn-insufficient data human occup. exp.
- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- Exposure controls:
- · Personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- · Protection of hands: Not required.
- · Material of gloves: Not applicable.
- · Penetration time of glove material: Not applicable.
- *Eye protection:* Not required.
- · Body protection: Not required.

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:

Liquid
Clear
Odorless
Not determined.
Not applicable.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/05/2018

Trade Name: ATAC Enzyme

Reviewed on 10/05/2018

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 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. Not determined.
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not applicable
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure @ 20 °C (68 °F):	<0.1 hPa (<0.1 mm Hg)
 Density: Relative density: Vapor density: Evaporation rate: 	Not determined. Not determined. Not determined.
 Solubility in / Miscibility with: Water: 	Fully miscible.
· Partition coefficient (n-octanol/water)	: Not determined.
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.
 Solvent content: VOC content: 	0.00 %
Solids content: • Other information:	0.0 % No further relevant information available.
10 Stability and Reactivity	

· *Reactivity:* No further relevant information available.

- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Strong acids, strong bases.
- · Incompatible materials: Strong acids, strong bases
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:			
Proprie	etary		
Oral	LD50	12,600 mg/kg (Rat)	
			(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 10/05/2018

Issue date 10/05/2018

Trade Name: ATAC Enzyme

 Dermal
 LD50
 >10,000 mg/kg (Rabbit)

 Inhalative
 LC50/96 hours
 >50,000 mg/l (Trout)

· Primary irritant effect:

· On the skin: No irritating effect.

- · On the eye: No irritating effect.
- Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

2 Ecological Information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport Information

- · UN-Number:
- · DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material
- UN proper shipping name:
 - IMDG IATA Non-Begu
- · DOT, ADR/ADN, ADN, IMDG, IATA

Non-Regulated Material



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/05/2018

Trade Name: ATAC Enzyme

 Transport hazaro 	l class(es):
--------------------------------------	--------------

- · DOT, ADR/ADN, ADN, IMDG, IATA
- · Class:
- · Packing group:
- · DOT, ADR/ADN, IMDG. IATA
- · Environmental hazards:
- · Special precautions for user:

Not applicable. Not applicable.

Non-Regulated Material

Non-Regulated Material

 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

· UN "Model Regulation":

Non-Regulated Material

5 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture: · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances): None of the ingredients are listed. Section 313 (Specific toxic chemical listings): None of the ingredients are listed. TSCA (Toxic Substances Control Act): All ingredients are listed or exempt from listing. · California Proposition 65: · Chemicals known to cause cancer: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed. · Chemicals known to cause developmental toxicity: None of the ingredients are listed. New Jersey Right-to-Know List: All ingredients are listed. · New Jersey Special Hazardous Substance List: None of the ingredients are listed. · Pennsylvania Right-to-Know List: All ingredients are listed. · Pennsylvania Special Hazardous Substance List: None of the ingredients are listed.
- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):
- None of the ingredients are listed.
- TLV (Threshold Limit Value established by ACGIH):
- None of the ingredients are listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health):
- None of the ingredients are listed.

Reviewed on 10/05/2018



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/05/2018

Trade Name: ATAC Enzyme

- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

• Date of preparation / last revision: 10/05/2018 / 11

• Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, ÉU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Reviewed on 10/05/2018



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/26/2019

Reviewed on 03/26/2019

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- · Product Identifier
- · Trade Name: 20x Nuclei Buffer
- · Product Number: 2000207
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Not relevant information.
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: 10X Genomics 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300
- · Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

 Classification of the substance or mixture: The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

- · Label elements:
- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 4.7 % of the mixture consists of component(s) of unknown toxicity.
- Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



• HMIS-ratings (scale 0 - 4)

HEALTH 0	Health = 0
FIRE 0	Fire = 0
REACTIVITY 0	Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

Trade Secret	Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/26/2019

Trade Name: 20x Nuclei Buffer

4 First-Aid Measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation:
- Generally the product does not irritate with inhalation.
- In case of unconsciousness place patient stably in the side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation occurs, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If eye irritation occurs, consult a doctor.
- *After swallowing:* Call a doctor if irritation or symptoms develop. Do not induce vomiting.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures:* Avoid contact with skin, eyes and clothing.
- · Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:	
Trade Secret	12 mg/m³
Trade Secret	11 mg/m³
	(Contd. on page 2)

(Contd. on page 3)

Reviewed on 03/26/2019



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/26/2019

Reviewed on 03/26/2019

Trade Name: 20x Nuclei Buffer

· PAC-2:	
Trade Secret	130 mg/m³
Trade Secret	120 mg/m³
· PAC-3:	
Trade Secret	790 mg/m³
Trade Secret	550 mg/m³

7 Handling and Storage

· Handling

• Precautions for safe handling:

Avoid contact with skin, eyes and clothing No special measures required. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse. Avoid contact with the skin.

- Avoid contact with the sure of
- Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

- · Material of gloves: Not applicable.
- · Penetration time of glove material: Not applicable.
- Eye protection: Not required.
- · Body protection: Not required.



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/26/2019

Trade Name: 20x Nuclei Buffer

Reviewed on 03/26/2019

9 Physical and Chemical Properties		
 Information on basic physical and chemical properties General Information 		
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid Clear Odorless Not determined.	
· pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. Not determined.	
· Flash point:	None	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	Not applicable	
• Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not self-igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
 Explosion limits: Lower: Upper: 	Not determined. Not determined.	
· Vapor pressure:	Not determined.	
 Density: Relative density: Vapor density: Evaporation rate: 	Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with: Water: 	Fully miscible.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
 Solvent content: VOC content: 	0.00 %	
Solids content: • Other information:	8.0 % No further relevant information available.	
10 Stability and Reactivity		

· Reactivity: No further relevant information available.

· Chemical stability: Stable under normal conditions.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid: Strong acids, strong bases.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 03/26/2019

Issue date 03/26/2019

Trade Name: 20x Nuclei Buffer

- · Incompatible materials: Strong acids, strong bases
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: No data available.
- · Primary irritant effect:
- On the skin: Irritant to skin and mucous membranes.
- · On the eye: No irritating effect.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Irritant

Carcinogenic categories:

	o o
	· IARC (International Agency for Research on Cancer):
	None of the ingredients are listed.
	· NTP (National Toxicology Program):
	None of the ingredients are listed.
	· OSHA-Ca (Occupational Safety & Health Administration):
	None of the ingredients are listed.
12	P Ecological Information

· Toxicity:

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- *Mobility in soil:* No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

3 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

Observe all federal, state and local environmental regulations when disposing of this material.



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/26/2019

Trade Name: 20x Nuclei Buffer

Uncleaned packaging Recommendation: Disposal must be made according to official regulations.

14 Transport Information

14 Transport information	
 · UN-Number: · DOT, ADR/ADN, ADN, IMDG, IATA · UN proper shipping name: · DOT, ADR/ADN, ADN, IMDG, IATA · Transport hazard class(es): 	Non-Regulated Material Non-Regulated Material
 DOT, ADR/ADN, ADN, IMDG, IATA Class: Packing group: DOT, ADR/ADN, IMDG, IATA Environmental hazards: Special precautions for user: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: UN "Model Regulation": 	Non-Regulated Material Non-Regulated Material Not applicable. Not applicable. f Not applicable. Non-Regulated Material
15 Regulatory Information	
	ons/legislation specific for the substance or mixture: thorization):
· Section 355 (extremely hazardous substa	nces):
None of the ingredients are listed.	
• Section 313 (Specific toxic chemical listin	gs):
None of the ingredients are listed.	
• TSCA (Toxic Substances Control Act):	
Trade Secret	
7647-14-5 Sodium Chloride	
Trade Secret	
· California Proposition 65:	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause reproductive t	oxicity for females:
None of the ingredients are listed.	
· Chemicals known to cause reproductive t	oxicity for males:
None of the ingredients are listed.	
· Chemicals known to cause developmenta	I toxicity:
None of the ingredients are listed.	
• New Jersey Right-to-Know List:	
None of the ingredients are listed.	
· New Jersey Special Hazardous Substance	e List:
None of the ingredients are listed.	
· Pennsylvania Right-to-Know List:	
None of the ingredients are listed.	
	(Contd. on page 7)

Reviewed on 03/26/2019



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/26/2019

Trade Name: 20x Nuclei Buffer

· Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

· Carcinogenic categories:

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

• TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements Non-Regulated Material

Hazard pictograms: Non-Regulated Material

- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 03/26/2019 / 13

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 * Data compared to the previous version altered.

Reviewed on 03/26/2019



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Reviewed on 03/28/2019

Identification · Product Identifier Trade Name: Barcoding Reagent B · Product Number: 2000194 · Relevant identified uses of the substance or mixture and uses advised against: · Product Description: Not relevant information. · Details of the Supplier of the Safety Data Sheet: · Manufacturer/Supplier: **10X Genomics** 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300 · Emergency telephone number: 1 925 401 7300 Hazard(s) Identification · Classification of the substance or mixture: Eye Irrit. 2B H320 Causes eye irritation. · Label elements: · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms: Non-Regulated Material · Signal word: Warning · Hazard statements: H320 Causes eye irritation. Precautionary statements: Wash thoroughly after handling. P264 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. · Unknown acute toxicity: This value refers to knowledge of known, established toxicological or ecotoxicological values. 0 % of the mixture consists of component(s) of unknown toxicity. Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme NFPA ratings (scale 0 - 4) Health = 1Fire = 0Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1 FIRE 0 Fire = 0REACTIVITY 0 Physical Hazard = 0 · Hazard(s) not otherwise classified (HNOC): None known 3 Composition/Information on Ingredients Chemical characterization: Mixtures · Description: Mixture of substances listed below with non-hazardous additions.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: Barcoding Reagent B

· Dangerous Components:	
-------------------------	--

Trade Secret

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures
- After inhalation: Generally the product does not irritate with inhalation.
- · After skin contact:
- Wash with soap and water.
- If skin irritation occurs, consult a doctor.
- After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn.

After swallowing:

Call a doctor if irritation or symptoms develop.

- Do not induce vomiting.
- Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray.

Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing.

· Environmental precautions: Do not allow to enter sewers/surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:

Trade Secret

45 mg/m³ (Contd. on page 3)

5-10%



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Reviewed on 03/28/2019

Trade Name: Barcoding Reagent B

Proprietary	6.9 mg/m³
Trade Secret	12 mg/m³
Trade Secret	11 mg/m³
· PAC-2:	
Trade Secret	180 mg/m³
Proprietary	76 mg/m³
Trade Secret	130 mg/m³
Trade Secret	120 mg/m³
· PAC-3:	
Trade Secret	1,100 mg/m³
Proprietary	460 mg/m³
Trade Secret	790 mg/m³
Trade Secret	550 mg/m³

7 Handling and Storage

· Handling

• Precautions for safe handling:

Avoid contact with skin, eyes and clothing

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage

- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters:

· Components with occupational exposure limits:

Trade Secret

PEL Long-term value: 15* 5** mg/m³

mist; *total dust **respirable fraction

TLV TLV withdrawn-insufficient data human occup. exp.

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

• Exposure controls:

- · Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes.
- *Breathing equipment:* Not required.



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: Barcoding Reagent B

· Protection of hands:



Protective gloves

- · Material of gloves: Not applicable.
- · Penetration time of glove material: Not applicable.
- Eye protection:



Safety glasses

· Body protection: Not required.

9 Physical and Chemical Properties

 Information on basic physical and cl General Information Appearance 	emical properties	
 Appearance: Form: Color: Odor: Odor threshold: 	Liquid Clear Odorless Not determined.	
· pH-value:	Not applicable.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. Not determined.	
· Flash point:	None	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	Not applicable	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not self-igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	
· Vapor pressure:	Not determined.	
 Density: Relative density: Vapor density: Evaporation rate: 	Not determined. Not determined. Not determined.	
• Solubility in / Miscibility with: Water:	Not miscible or difficult to mix.	

· Partition coefficient (n-octanol/water): Not determined.

Reviewed on 03/28/2019

(Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Reviewed on 03/28/2019

Trade Name: Barcoding Reagent B

Kinematic: • Solvent content: • VOC content:	Not determined.
Solids content:	0.8 %
• Other information:	No further relevant information available.

· Reactivity: No further relevant information available.

- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Strong acids, strong bases.
- · Incompatible materials: Strong acids, strong bases
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- Acute toxicity:

· LD/LC50 values that are relevant for c	classification:
--	-----------------

Trade Secret

Oral	LD50	12,600 mg/kg (Rat)	
Dermal	LD50	>10,000 mg/kg (Rabbit)	
Inhalative	LC50/96 hours	>50,000 mg/l (Trout)	

Primary irritant effect:

· On the skin: No irritating effect.

· On the eye: Irritating effect.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

- · OSHA-Ca (Occupational Safety & Health Administration):
- None of the ingredients are listed.
- 2 Ecological Information
- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · *Bioaccumulative potential:* No further relevant information available.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Reviewed on 03/28/2019

Issue date 03/28/2019

Trade Name: Barcoding Reagent B

- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packaging

• Recommendation: Disposal must be made according to official regulations.

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· UN-Number:		
DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material	
 UN proper shipping name: DOT, ADR/ADN, ADN, IMDG, IATA Transport hazard class(es): 	Non-Regulated Material	
· DOT, ADR/ADN, ADN, IMDG, IATA		
· Class:	Non-Regulated Material	
· Packing group:		
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material	
 Environmental hazards: 	Not applicable.	
 Special precautions for user: 	Not applicable.	
 Transport in bulk according to Annex I 	l of	
MARPOL73/78 and the IBC Code:	Not applicable.	
• UN "Model Regulation":	Non-Regulated Material	

15 Regulatory Information

• Safety, health and environmental regulations/legislation specific for the substance or mixture: • SARA (Superfund Amendments and Reauthorization):

 Section 355 	o (extremely hazardous substances):
None of the	ingredients are listed.
· Section 313	(Specific toxic chemical listings):
None of the	ingredients are listed.
· TSCA (Toxi	c Substances Control Act):
	Trade Secret
	Proprietary
	Trade Secret
	Proprietary Ingredient II
12125-02-9	Ammonium Chloride
	Trade Secret
	(Contdoor name 7)

(Contd. on page 7)



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: Barcoding Reagent B

Reviewed on 03/28/2019

· California Proposition 65:		
· Chemicals known to cause cancer:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
Trade Secret		
12125-02-9 Ammonium Chloride		
· New Jersey Special Hazardous Substance List:		
None of the ingredients are listed.		
· Pennsylvania Right-to-Know List:		
Trade Secret		
12125-02-9 Ammonium Chloride		
Pennsylvania Special Hazardous Substance List:		
12125-02-9 Ammonium Chloride	E	
· Carcinogenic categories:		
EPA (Environmental Protection Agency):		
None of the ingredients are listed.		
• TLV (Threshold Limit Value established by ACGIH):		
None of the ingredients are listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the ingredients are listed.		
 GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). 		
• Hazard pictograms: Non-Regulated Material		
· Signal word: Warning		
· Hazard statements:		
H320 Causes eye irritation. • <i>Precautionary statements:</i>		
P264 Wash thoroughly after handling.		
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact le	enses, if	
present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.		
· National regulations:		
None of the ingredients are listed.		
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/28/2019

Trade Name: Barcoding Reagent B

· Date of preparation / last revision: 03/28/2019 / 15 • Abbreviations and acronvms: ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B * * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Reviewed on 03/28/2019



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2018

Reviewed on 10/04/2018

1 Identification

- · Product Identifier
- Trade Name: Barcoding Enzyme
- *Product Number:* 2000139
- 2000125
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Not relevant information.
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: 10X Genomics
 7068 Koll Center Parkway
 Suite 401
 Pleasanton, CA 94566
 1 925 401 7300
 Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

· Classification of the substance or mixture:

The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

- · Label elements:
- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Precautionary statements:
- P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTHImage: OFIREImage: OREACTIVITYPhysical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Non-hazardous components:

Non-Hazardous Components

90-99%

· Chemical characterization: Mixtures

• Description: Mixture of substances listed below with non-hazardous additions.

(Contd. on page 2)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2018

Trade Name: Barcoding Enzyme

- · Dangerous Components: Non-Regulated Material
- Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of discomfort seek medical attention.

· After skin contact:

Wash off with soap and plenty of water for at least 15 minutes. In case of discomfort seek medical attention.

• After eye contact:

Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing. In case of discomfort seek medical attention.

· After swallowing:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. In case of discomfort seek medical attention.

- · Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures:* Avoid contact with skin, eyes and clothing.
- Avoid contact with skin, eyes and ciothing.
- · Environmental precautions: Do not allow to enter sewers/surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

- **Reference to other sections:** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals

· PAC-1:

None of the ingredients are listed.

Reviewed on 10/04/2018



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2018

Reviewed on 10/04/2018

Trade Name: Barcoomg Enzyme

PAC-2:
 None of the ingredients are listed.
 PAC-3:
 None of the ingredients are listed.
 7 Handling and Storage

- · Handling
- Precautions for safe handling: Avoid contact with skin, eyes and clothing No special measures required.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

- · Material of gloves: Not applicable.
- · Penetration time of glove material: Not applicable.
- Eye protection:



Safety glasses

· Body protection: Not required.



Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2018

Trade Name: Barcoding Enzyme

Reviewed on 10/04/2018

 9 Physical and Chemical Properties • Information on basic physical and chemical properties • General Information • Appearance: 	
Color:	Clear
Odour:	Odorless
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined. Not determined.
Flash point:	None
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure:	Not determined.
Density @ 20 ℃ (68 ℉): Relative density: Vapor density: Evaporation rate:	1.1983 g/cm ³ (9.9998 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with: Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/w	<i>ater):</i> Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: VOC content:	0.00 %
Solids content: Other information:	0.0 % No further relevant information available.

· Reactivity: No further relevant information available.

· Chemical stability: Stable under normal conditions.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions: No dangerous reactions known.

· Conditions to avoid: Do not store next to heat source, in direct sunlight, or elevated storage temperature. (Contd. on page 5)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Page 5/7

Reviewed on 10/04/2018

Issue date 10/04/2018

Trade Name: Barcoding Enzyme

- · Incompatible materials: Strong acids, strong bases
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: No data available.
- · Primary irritant effect:
- · On the skin: No irritating effect.
- · On the eye: No irritating effect.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- **vPvB**: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal Considerations

· Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packaging
- *Recommendation:* Disposal must be made according to official regulations.



*

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2018

Trade Name: Barcoding Enzyme

Reviewed on 10/04/2018

14 Transport Information

· UN-Number:	
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· UN proper shipping name:	
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· Transport hazard class(es):	Non rogalatoa matonal
,	
· DOT, ADR/ADN, ADN, IMDG, IATA	Nex Devision Material
· Class:	Non-Regulated Material
• Packing group:	
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
 Environmental hazards: 	Not applicable.
 Special precautions for user: 	Not applicable.
 Transport in bulk according to Annex II 	of
MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	Non-Regulated Material
15 Regulatory Information	
	ations/legislation specific for the substance or mixture:
 SARA (Superfund Amendments and Re 	authorization):
 Section 355 (extremely hazardous subs 	tances):
None of the ingredients are listed.	

• Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

· California Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

- Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.
- Chemicals known to cause developmental toxicity:
 None of the ingredients are listed.
- *New Jersey Right-to-Know List:* None of the ingredients are listed.
- *New Jersey Special Hazardous Substance List:* None of the ingredients are listed.

· Pennsylvania Right-to-Know List:

None of the ingredients are listed.

· Pennsylvania Special Hazardous Substance List:

None of the ingredients are listed.

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/04/2018

Trade Name: Barcoding Enzyme

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

• TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- Precautionary statements: P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 10/04/2018 / 13

• Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, ÉU) LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Reviewed on 10/04/2018



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/06/2018

Reviewed on 10/06/2018

1 Identification		
TUEIIIIICalion		

- · Product Identifier
- · Trade Name: SI-PCR Primer B
- Product Number: 2000128
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Not relevant information.
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: 10X Genomics 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300
- · Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

- Classification of the substance or mixture: The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
- · Label elements:
- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material
- · Unknown acute toxicity:
- 0 % of the mixture consists of component(s) of unknown toxicity.
- · Classification system:
- NFPA ratings (scale 0 4)

0 0 0 Health = 0Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 0	Health = 0
	Fire = 0
REACTIVITY 0	Physical Hazard =

· Hazard(s) not otherwise classified (HNOC): None known

0

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of substances listed below with non-hazardous additions.
- · Dangerous Components: Non-Regulated Material
- Additional information:

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

4 First-Aid Measures

- · Description of first aid measures
- · General information: No special measures required.

Reviewed on 10/06/2018



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/06/2018

Trade Name: SI-PCR Primer B

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

• Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling
- · Precautions for safe handling: No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: Store in the original container.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: Does not apply.
- · Control parameters:
- · Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation of this SDS were used as basis.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/06/2018

Trade Name: SI-PCR Primer B

- Exposure controls:
- · Personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

- · Material of gloves: Not required.
- · Penetration time of glove material: Not applicable.
- · Eye protection: Not required.

9 Physical and Chemical Properties

 Information on basic physical and chemical properties General Information Appearance: 	
Form: Color: • Odour: • Odor threshold:	Liquid Colorless Odorless Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. Not determined.
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
 Density: Relative density: Vapor density: Evaporation rate: 	Not determined. Not determined. Not determined.
 Solubility in / Miscibility with: Water: 	Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.
· Viscosity: Dynamic:	Not determined.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/06/2018

Reviewed on 10/06/2018

Trade Name: SI-PCR Primer B

Kinematic:	Not determined.
 Solvent content: Organic solvents: 	0.0 %
Solids content: • Other information:	0.2 % No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- *Possibility of hazardous reactions:* No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: No data available.
- · Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: No irritating effect.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

2 Ecological Information

- Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/06/2018

Trade Name: SI-PCR Primer B

· Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- *Recommendation:* Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.

4 Transport Information · UN-Number: · DOT, ADN, IMDG, IATA Non-Regulated Material · ADR/ADN Non-Regulated Material Not Regulated • UN proper shipping name: · DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material · Transport hazard class(es): · DOT, ADR/ADN, ADN, IMDG, IATA · Class: Non-Regulated Material · Packing group: · DOT, ADR/ADN, IMDG, IATA Non-Regulated Material · Environmental hazards: Not applicable. • Special precautions for user: Not applicable. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable. Transport/Additional information: · DOT Quantity limitations: On passenger aircraft/rail: N/A On cargo aircraft only: N/A · UN "Model Regulation": Non-Regulated Material 5 Regulatory Information · Safety, health and environmental regulations/legislation specific for the substance or mixture: · SARA (Superfund Amendments and Reauthorization): · Section 355 (extremely hazardous substances): None of the ingredients are listed.

- Section 313 (Specific toxic chemical listings): None of the ingredients are listed.
- TSCA (Toxic Substances Control Act):

Proprietary

· California Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Reviewed on 10/06/2018

(Contd. on page 6)



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 10/06/2018

Trade Name: SI-PCR Primer B

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories:

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

• TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

- · GHS label elements Non-Regulated Material
- · Hazard pictograms: Non-Regulated Material
- · Signal word: Non-Regulated Material
- · Hazard statements: Non-Regulated Material

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 10/06/2018 / 9

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Reviewed on 10/06/2018



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/21/2018

Reviewed on 05/25/2016

1 Identification

- · Product Identifier
- · Trade Name: Reducing Agent B
- · Product Number: 2000087
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Not relevant information.
- · Details of the Supplier of the Safety Data Sheet:
- *Manufacturer/Supplier:* 10X Genomics 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300
- · Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

· Classification of the substance or mixture:



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements:

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



· Signal word: Warning

- · Hazard-determining components of labeling:
- Proprietary
- Hazard statements:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements:

P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.



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P362+P364Take off contaminated clothing and wash it before reuse.P337+P313If eye irritation persists: Get medical advice/attention.P501Dispose of contents/container in accordance with local/regional/national/international
regulations.

· Unknown acute toxicity:

0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system:
- NFPA ratings (scale 0 4)

 $\begin{array}{c} \textbf{Health} = 2\\ \textbf{Fire} = 0\\ \textbf{Reactivity} = 0 \end{array}$

· HMIS-ratings (scale 0 - 4)



· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:

Proprietary

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets. Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

4 First-Aid Measures

· Description of first aid measures

General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

- · After eye contact:
- Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- Information for doctor
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:
- No further relevant information available.

5 Fire-Fighting Measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.



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- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- *Personal precautions, protective equipment and emergency procedures:* Wear protective equipment. Keep unprotected persons away.
- *Environmental precautions:* Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

- Reference to other sections:
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

· Handling

• Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

- · Conditions for safe storage, including any incompatibilities
- · Storage

• Requirements to be met by storerooms and receptacles: Store in the original container.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: Does not apply.
- · Control parameters:
- · Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Breathing equipment: Not required.



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· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of aloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• Eye protection:



Tightly sealed goggles

9 Physical and Chemical Properties

· Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Color: Colorless · Odour: Unpleasant · Odor threshold: Not determined. · pH-value: Not determined. · Change in condition Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined. · Flash point: None · Flammability (solid, gaseous): Not applicable. · Decomposition temperature: Not determined. · Auto igniting: Product is not self-igniting. Product does not present an explosion hazard. · Danger of explosion: · Explosion limits: Not determined. Lower: Upper: Not determined. · Vapor pressure: Not determined. · Density: Relative density: Not determined.



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Vapor density: Evaporation rate:	Not determined. Not determined.
 Solubility in / Miscibility with: Water: 	Not determined.
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
 Solvent content: Organic solvents: Other information: 	0.0 % No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: No data available.
- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- On the eye:
- Irritating effect.

Causes serious eye irritation.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

2 Ecological Information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.



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- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

- Danger to drinking water if even small quantities leak into the ground.
- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects: No further relevant information available.

3 Disposal Considerations

- · Waste treatment methods
- *Recommendation:* Recycle or dispose with household trash.
- · Uncleaned packaging
- · Recommendation: Disposal must be made according to official regulations.

4 Transport Information

· UN-Number:	
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
• UN proper shipping name:	
· DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· Transport hazard class(es):	0
· DOT, ADR/ADN, ADN, IMDG, IATA	
· Class:	Non-Regulated Material
· Packing group:	
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
· Environmental hazards:	Not applicable.
 Special precautions for user: 	Not applicable.
Transport in bulk according to Annex II	of
MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	Non-Regulated Material
-	5

15 Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
 SARA (Superfund Amendments and Reauthorization):

 Section 355 (extremely hazardous substances):
None of the ingredients are listed.
· Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.
· TSCA (Toxic Substances Control Act):
All ingredients are listed or exempt from listing.
· California Proposition 65:
· Chemicals known to cause cancer:
None of the ingredients are listed.

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None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

None of the ingredients are listed.

- TLV (Threshold Limit Value established by ACGIH):
- None of the ingredients are listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



· Signal word: Warning

Hazard-determining components of labeling: Proprietary
Hazard statements: H302 Harmful if swallowed. H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements:

Frecaulionary Sta	
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves / eye protection / face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P330	Rinse mouth.
P302+P352	If on skin: Wash with plenty of water.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.

National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Trade Name: Reducing Agent B

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 08/21/2018 / 6

· Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

* Data compared to the previous version altered.

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- 1 Identification
- Product Identifier
 Trade Name: Amp Mix
- Amp Mix • Product Number: 2000047
- 2000103
- Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: No Further Information
- · Application of the substance / the mixture: Industry Specific Application
- Details of the Supplier of the Safety Data Sheet:
 Manufacturer/Supplier: 10X Genomics 7068 Koll Center Parkway
- Suite 401 Pleasanton, CA 94566 1 925 401 7300
- Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

· Classification of the substance or mixture:



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements:
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms:



- · Signal word: Warning
- · Hazard statements:
- H315+H320 Causes skin and eye irritation.
- · Precautionary statements:
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves.
- P302+P352 If on skin: Wash with plenty of water.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.



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0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)

Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTHIHealth = 1FIRE0Fire = 0REACTIVITY0Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Chemical characterization: Mixtures

· Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:		
CAS: 56-81-5 RTECS: MA 8050000	Glycerol	1-10%
CAS: 9016-45-9	Nonylphenoxypoly(ethyleneoxy)ethanol	Proprietary%
CAS: 7664-93-9	Sulfuric acid Skin Corr. 1A, H314	Proprietary%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

· Description of first aid measures

• After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

• After skin contact:

Wash with soap and water.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If easy to do so, remove contact lenses if worn. If eye irritation occurs, consult a doctor.

· After swallowing:

If swallowed and symptoms occur, consult a doctor.

Do not induce vomiting without medical advice.

· Information for doctor

- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

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Trade Name: Amp Mix Amp Mix

5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No further relevant information.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- · Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

 Personal precautions, protective equipment and emergency procedures: Do not inhale gases / fumes /aerosols Avoid contact with skin, eyes and clothing.
 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/surface or ground water.

• Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

- Reference to other sections:
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1: 56-81-5 Glycerol 45 mg/m³ 9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol 43 mg/m³ 7664-93-9 Sulfuric acid 0.20 mg/m³ · PAC-2: 56-81-5 Glycerol 180 mg/m³ 9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol 470 mg/m³ 7664-93-9 Sulfuric acid 8.7 mg/m³ · PAC-3: 56-81-5 Glycerol 1,100 mg/m³ 9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol 5,400 mg/m³ 7664-93-9 Sulfuric acid 160 mg/m³

7 Handling and Storage

· Handling

- · Precautions for safe handling: Avoid release into the environment.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage

- · Requirements to be met by storerooms and receptacles: Store at room temperature.
- · Information about storage in one common storage facility: Not required.



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Trade Name: Amp Mix Amp Mix

- · Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

56-81-5 Glycerol

- PEL Long-term value: 15* 5** mg/m³
 - mist; *total dust **respirable fraction
- TLV TLV withdrawn-insufficient data human occup. exp.

7664-93-9 Sulfuric acid

- PEL Long-term value: 1 mg/m³
- REL Long-term value: 1 mg/m³
- TLV Long-term value: 0.2* mg/m³
 - *as thoracic fraction

• Additional information: The lists that were valid during the creation of this SDS were used as basis.

- Exposure controls:
- · Personal protective equipment
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- Wash hands before breaks and at the end of work.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Select glove material based on penetration times, rates of diffusion and degradation.

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• Eye protection:



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Trade Name: Amp Mix Amp Mix Reviewed on 08/20/2018

9 Physical and Chemical Properties

 Information on basic physical and chemical properties General Information Appearance: 	
Form:	Liquid
Color:	Clear, colorless
· Odour: · Odor threshold:	Odorless Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Not determined. Not determined.
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not applicable
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined. Not determined.
Upper:	
· Vapor pressure:	Not determined.
· Density:	Net determined
Relative density: Vapor density:	Not determined. Not determined.
Evaporation rate:	Not determined.
• Solubility in / Miscibility with:	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined.
Kinematic: • Other information:	Not determined. No further relevant information available.
10 Stability and Reactivity	

· Reactivity: No further relevant information available.

· Chemical stability: Stable under normal conditions.

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Contact with moisture, acids and bases.

· Incompatible materials:

Strong oxidizing agents, strong reducing agents Strong acids, strong bases

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Trade Name: Amp Mix Amp Mix Reviewed on 08/20/2018

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects: · Acute toxicity: · LD/LC50 values that are relevant for classification: 56-81-5 Glycerol Oral LD50 12,600 mg/kg (Rat) Dermal LD50 >10,000 mg/kg (Rabbit) Inhalative LC50/96 hours >50,000 mg/l (Trout) 9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol LD50 3,310 mg/kg (Rat) Oral Dermal LD50 >2,000 mg/kg (Rat) 7664-93-9 Sulfuric acid Oral LD50 Oral 2,140 ml/kg (Rat) Inhalative LC50/96 hours 375 mg/l (Rat) Sulfuric acid is harmful by all routes of entry. · Primary irritant effect: · On the skin: No irritating effect. · On the eye: Irritating effect. · Additional toxicological information: · Carcinogenic categories: · IARC (International Agency for Research on Cancer): Group 1 - Carcinogenic to humans Group 2A - Probably carcinogenic to humans Group 2B - Possibly carcinogenic to humans Group 3 - Not classifiable as to its carcinogenicity to humans Group 4 - Probably not carcinogenic to humans 7664-93-9 Sulfuric acid 3 · NTP (National Toxicology Program): None of the ingredients are listed. · OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. 2 Ecological Information · Toxicity: · Aquatic toxicity: 9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol
 - EC50 12 mg/l (Algae Selenastrum capricornutum) (96 HOURS)

0.148 mg/l (Daphnia) (48 hours)

7664-93-9 Sulfuric acid

EC50 22 mg/l (Daphnia)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- *Bioaccumulative potential:* No further relevant information available.



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Trade Name: Amp Mix Amp Mix

- · *Mobility in soil:* No further relevant information available.
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- **Recommendation:** Observe all federal, state and local environmental regulations when disposing of this material.
- · Uncleaned packaging
- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport Information

· UN-Number: · DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· UN proper shipping name: · DOT, ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
· Transport hazard class(es):	5
· DOT, ADR/ADN, ADN, IMDG, IATA	
· Class:	Non-Regulated Material
· Packing group:	New Devulated Material
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material
• Environmental hazards:	Not applicable.
 Special precautions for user: 	Not applicable.
 Transport in bulk according to Annex II of 	of
MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	Non-Regulated Material
15 Degulatory Information	

5 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture: • SARA (Superfund Amendments and Reauthorization):
- Section 355 (extremely hazardous substances):
 7664-93-9 Sulfuric acid
 Section 313 (Specific toxic chemical listings):
 7664-93-9 Sulfuric acid
 TSCA (Toxic Substances Control Act):
 All ingredients are listed or exempt from listing.
 California Proposition 65:
 Chemicals known to cause cancer:
 None of the ingredients are listed.

Reviewed on 08/20/2018

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· Chemicals known to cause reproductive toxicity for females:

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Trade Name: Amp Mix Amp Mix

	ingredients are listed.	
	known to cause reproductive toxicity for males:	
	ingredients are listed.	
· Chemicals	known to cause developmental toxicity:	
	ingredients are listed.	
· New Jerse	y Right-to-Know List:	
56-81-5	Glycerol	
7664-93-9	Sulfuric acid	
· New Jerse	y Special Hazardous Substance List:	
7664-93-9	Sulfuric acid	CA, CO, R2
· Pennsylva	nia Right-to-Know List:	
56-81-5	Glycerol	
7664-93-9	Sulfuric acid	
· Pennsylva	nia Special Hazardous Substance List:	
7664-93-9	Sulfuric acid	E
· Carcinoge	nic categories:	
· EPA (Envil	ronmental Protection Agency):	
None of the	ingredients are listed.	
· TLV (Three	shold Limit Value established by ACGIH):	
7664-93-9	Sulfuric acid	A2
· NIOSH-Ca	(National Institute for Occupational Safety and Health):	
	ingredients are listed.	
 GHS label The product Hazard pic 	t is classified and labeled according to the Globally Harmonized System (GHS).	



· Signal word: Warning

· Hazard statements:

H315+H320 Causes skin and eye irritation.

· Precautionary statements:

	-
P264	
P264	wash thorolignly after handling
1 207	Wash thoroughly after handling.

-	
P280	Wear protective gloves.

P302+P352 If on skin: Wash with plenty of water.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.



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· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

• Date of preparation / last revision: 08/20/2018 / 2

• Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

Reviewed on 08/20/2018



OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/21/2018

Reviewed on 05/26/2016

1 Identification

- · Product Identifier
- · Trade Name: Cleanup Buffer
- · Product Number: 2000088
- · Relevant identified uses of the substance or mixture and uses advised against:
- · Product Description: Not relevant information.
- · Details of the Supplier of the Safety Data Sheet:
- *Manufacturer/Supplier:* 10X Genomics 7068 Koll Center Parkway Suite 401 Pleasanton, CA 94566 1 925 401 7300
- · Emergency telephone number: 1 925 401 7300

2 Hazard(s) Identification

· Classification of the substance or mixture:

Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.



Acute Tox. 4 H332 Harmful if inhaled.

- · Label elements:
- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms:



- · Signal word: Danger
- *Hazard-determining components of labeling:* Proprietary
- · Hazard statements:
- H301+H311 Toxic if swallowed or in contact with skin.

H332 Harmful if inhaled.

· Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves / protective clothing.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).



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P330 Rinse mouth.

P302+P352 If on skin: Wash with plenty of water.

- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Unknown acute toxicity:

0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system:
- · NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH2FIRE0Fire0REACTIVITY0Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Chemical characterization: Mixtures

· Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:

5 1		
Proprietary	🚸 Acute Tox. 3, H301; Acute Tox. 3, H311; 🚸 Acute Tox. 4, H332	70.9%
Proprietary	Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	1.23%
	-	

• Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets. Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

4 First-Aid Measures

• Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; immediately call for medical help.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed: No further relevant information available.

(Contd. on page 3)



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5 Fire-Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters
- · Special protective equipment for firefighters:
- Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling
- · Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

- · Storage
- *Requirements to be met by storerooms and receptacles:* Store in the original container.
- · Information about storage in one common storage facility: Do not store together with acids.
- · Further information about storage conditions: None.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

· Additional information about design of technical systems: Does not apply.

· Control parameters:

· Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists that were valid during the creation of this SDS were used as basis.

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Trade Name: Cleanup Buffer

- Exposure controls:
- · Personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

· Protection of hands:



Protective aloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• Eve protection:



Safety glasses

9 Physical and Chemical Properties

- Information on basic physical and chemical properties
- · General Information
- · Appearance: Form: Color:
- · Odour:
- · Odor threshold:
- · pH-value:
- · Change in condition Melting point/Melting range: Boiling point/Boiling range:
- · Flash point:
- · Flammability (solid, gaseous):
- · Ignition temperature:

Colorless Mild
Not determined.
Not determined.
Not determined. Not determined.
None
Not applicable.
Not applicable

Liquid

С



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Reviewed on 05/26/2016

· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure:	Not determined.
 Density: Relative density: Vapor density: Evaporation rate: 	Not determined. Not determined. Not determined.
 Solubility in / Miscibility with: Water: 	Fully miscible.
· Partition coefficient (n-octanol/water)	: Not determined.
 Viscosity: Dynamic: Kinematic: 	Not determined. Not determined.
 Solvent content: Organic solvents: 	0.0 %
Solids content: • Other information:	72.1 % No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: Avoid conditions of heat m

Avoid conditions of heat, moisture and sunlight. Contact with acids.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

1 Toxicological Information

· Information on toxicological effects:

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Proprietary

Oral LD50 3530 mg/kg (Rat)

- · Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: No irritating effect.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

(Contd. on page 6)



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Trade Name: Cleanup Buffer

Toxic

- · Carcinogenic categories:
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · *Bioaccumulative potential:* No further relevant information available.
- · Mobility in soil: No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods
- · Recommendation: Recycle or dispose with household trash.
- · Uncleaned packaging
- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport Information

- · UN-Number:
- · DOT, ADR/ADN, IMDG, IATA
- UN proper shipping name:
- ·DOT
- · ADR/ADN
- · IMDG, IATA
- Transport hazard class(es):
- · DOT



· Class:

UN3287

Toxic liquid, inorganic, n.o.s. (Proprietary) UN3287 Toxic liquid, inorganic, n.o.s. (Proprietary) TOXIC LIQUID, INORGANIC, N.O.S. (Proprietary)

6.1 Toxic substances

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Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/21/2018	Reviewed on 05/26/2016	
Trade Name: Cleanup Buffer		
· Label:	6.1	
· ADR/ADN		
· Class: · Label:	6.1 (T4) Toxic substances 6.1	
· IMDG, IATA		
· Class: · Label:	6.1 Toxic substances 6.1	
 Packing group: 		
 DOT, ADR/ADN, IMDG, IATA Environmental hazards: 	III Not applicable.	
 Special precautions for user: Danger code (Kemler): 	Warning: Toxic substances 60	
· EMS Number:	F-A,S-A	
 Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code: 	f Not applicable.	
· Transport/Additional information:		
• DOT • Quantity limitations:	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L	
· ADR/ADN		
 Excepted quantities (EQ): 	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· IMDG	EI	
 Limited quantities (LQ): Excepted quantities (EQ): 	5L Code: E1	
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml	
· UN "Model Regulation":	UN3287, Toxic liquid, inorganic, n.o.s. (Proprietary), 6.1, III	
15 Regulatory Information		

Safety, health and environmental regulations/legislation specific for the substance or mixture:
 SARA (Superfund Amendments and Reauthorization):

•	Section 355 (extremely hazardous substances):
	None of the ingredients are listed.
•	Section 313 (Specific toxic chemical listings):
	None of the ingredients are listed.
•	TSCA (Toxic Substances Control Act):
	All ingredients are listed or exempt from listing.
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- California Proposition 65:
- · Chemicals known to cause cancer:
- None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.
- Chemicals known to cause reproductive toxicity for males:
 None of the ingredients are listed.
- · Chemicals known to cause developmental toxicity:
- None of the ingredients are listed.
- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):
- None of the ingredients are listed.

· TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



· Signal word: Danger

• Hazard-determining components of labeling: Proprietary

· Hazard statements:

H301+H311 Toxic if swallowed or in contact with skin.

H332 Harmful if inhaled.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves / protective clothing.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P330 Rinse mouth.
- P302+P352 If on skin: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a poison center/doctor if you feel unwell.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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Issue date 08/21/2018

Trade Name: Cleanup Buffer

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 08/21/2018 / 7

• Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation - Category 2B STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106