

Issuing Date No data available

Revision Date 20-Jul-2018

Revision Number 2

Japan / English

**1. PRODUCT AND COMPANY IDENTIFICATION**Product identifier

**Product Name** Cool 3  
**Product Code(s)** 10-6001, 10-6004, 10-6010  
**(M)SDS Number** 1340891\_J

Other means of identification

**Synonyms** No information available  
**Registration Number(s)** No information available

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory Use Only  
**Uses advised against** No information available

Details of the supplier of the safety data sheet

**Manufacturer** Buehler  
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kaigan Minato-ku, Tokoyo 108-0022  
www.buehler.com/Japan  
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**2. HAZARDS IDENTIFICATION**GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

**Hazard statements**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Precautionary Statements - Prevention**

Not applicable

**Precautionary Statements - Response**

Not applicable

**Precautionary Statements - Storage**

Not applicable

**Precautionary Statements - Disposal**

Not applicable

**Other hazards**

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture****Not Hazardous**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Chemical name	Weight-%	ENCS - Japan Existing and New Chemical Substances	ISHL No.	CAS-No
Water	60 - 90%	No information available	No information available	7732-18-5
Methyldiethanolamine	1 - 5%	(2)-300	No information available	105-59-9
Glycerol	1 - 5%	No information available	No information available	9082-00-2
poly(oxyethylene) poly(oxypropylene) ether				
Butoxydiglycol	1 - 5%	(7)-97,(2)-422	Present	112-34-5

**Pollutant Release and Transfer Registry (PRTR)**

Not applicable.

**Industrial Safety and Health Law**

Not applicable

**Poisonous and Deleterious Substances Control Law** Not applicable

### 4. FIRST AID MEASURES

**First aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact**

Wash skin with soap and water.

<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
<b>Symptoms</b>	Burning sensation.
<b>Self-protection of the first aider Note to physicians</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	No information available.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Special Extinguishing Media</b>	Cool drums with water spray.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
<b>Other Information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.
<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

### Handling

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.
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### Storage

<b>Storage Conditions</b>	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure guidelines

Chemical name	Japan	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Butoxydiglycol 112-34-5	-	-	TWA: 10 ppm inhalable fraction and vapor

**Biological occupational exposure limits** Not applicable

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

### Personal protective equipment

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing.

**Hand protection** Wear suitable gloves.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Environmental exposure controls** No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

**Physical state** Liquid  
**Appearance** Clear to yellow  
**Odor** Mild  
**Color** No information available  
**Odor Threshold** No information available

Property	Values	Remarks Method
pH	9.6	
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.05	
Water Solubility	Soluble in water	
Solubility(ies)	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known

<b>Kinematic viscosity</b>	No data available	None known
<b>Viscosity</b>	6	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b>Other Information</b>		
<b>Softening Point</b>	No information available	
<b>Molecular Weight</b>	No information available	
<b>VOC Content (%)</b>	No information available	
<b>Liquid Density</b>	No information available	
<b>Bulk Density</b>	No information available	
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Stability</b>	Stable under normal conditions.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous Decomposition Products</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	May cause redness and tearing of the eyes.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	39,760.00 mg/kg
ATEmix (inhalation-dust/mist)	87.38 mg/L

#### **Unknown acute toxicity**

- 29 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 29 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 40 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 39 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Numerical measures of toxicity - Component Information

Chemical name	LD50 Oral	LD50 Dermal	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )		
Methyldiethanolamine 105-59-9	= 1900 mg/kg ( Rat ) = 1945 mg/kg ( Rat )	= 5990 mg/kg ( Rabbit )	
Glycerol poly(oxyethylene) poly(oxypropylene) ether 9082-00-2	> 10 g/kg ( Rat )	> 5 g/kg ( Rabbit )	
Butoxydiglycol 112-34-5	= 5660 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	May cause skin irritation.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Irritating to eyes.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	Classification based on data available for ingredients. Contains a known or suspected reproductive toxin.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	Eyes. Respiratory system. Liver.
<b>Aspiration hazard</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Percentage for unknown hazards** 28 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyldiethanolamine	72h EC50: = 37 mg/L (Desmodesmus subspicatus) 96h EC50: = 20 mg/L (Desmodesmus subspicatus)	96h LC50: > 1000 mg/L (Pimephales promelas) 96h LC50: 1000 - 2200 mg/L (Leuciscus idus)	EC50 = 410 mg/L 17 h	48h EC50: = 230 mg/L
Butoxydiglycol	96h EC50: > 100 mg/L (Desmodesmus	96h LC50: = 1300 mg/L (Lepomis	-	24h EC50: = 2850 mg/L 48h EC50: > 100

	subspicatus)	macrochirus)		mg/L
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**Persistence and Degradability** No information available.

**Bioaccumulation**

**Component Information**

Chemical name	Log Pow
Methyldiethanolamine	-1.08

**Mobility in soil** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

**IMDG** NOT REGULATED

**ADR** NOT REGULATED

**IATA** NOT REGULATED  
**Proper Shipping Name** NON REGULATED

**Japan**  
**Hazard Class** N/A

### 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National Regulations**

**Japan**

**Pollutant Release and Transfer Registry (PRTR)**  
 Not applicable

**Industrial Safety and Health Law** Not applicable

**Fire Service Law:**  
 Not applicable

**Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL)**  
 Not applicable

**Air Pollution Control Law**

Air pollutants with regulated emissions standards, Air Pollution Control Act article 3  
Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

**International Regulations**

**Ozone-depleting substances (ODS)** Not applicable

**Persistent Organic Pollutants** Not applicable

**Export Notification requirements** Not applicable

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

16. OTHER INFORMATION
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<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Issuing Date</b>	01-Mar-2017
<b>Revision Date</b>	20-Jul-2018
<b>Revision Note</b>	No information available

**Key or legend to abbreviations and acronyms used in the safety data sheet****Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	-	Skin designation
C	Carcinogen		

**Disclaimer**

This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (Japan). The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid



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**End of Safety Data Sheet**