

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 14.09.2022

Version number 1.0

Revision: 14.09.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name:** Mole Anti-limescale Power Cleaner
- **UFI:** 9D9A-3R60-RQ3N-RJKR
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:**  
Deliming agent  
Cleaning agent/ Cleaner
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Global Cosmed GmbH  
Global Cosmed International GmbH  
  
Osterbekstraße 90 a  
D-22083 Hamburg, Germany  
Tel. +49 40 64 60 429 - 0 (8:00 - 17:00)  
Tel. +49 40 64 60 429 - 30 (8:00 - 17:00)  
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info@globalcosmed.de  
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Global Cosmed Group S.A.  
ul. Kuziennicza 15, 59-400 JAWOR  
Telefon +48 76 870 30 31; Fax +48 76 870 32 63  
Nr statystyczny REGON - 390339667  
www.globalcosmed.eu  
sekretariat.jawor@globalcosmed.eu
- **1.4 Emergency telephone number:** + 48 76 870 30 31 (Mo. to Fr. 8:00 - 16:00) or 112

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



- **Signal word** Warning

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**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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.

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

**2.3 Other hazards**
**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**
**Description:** Mixture: consisting of the following components.

**Dangerous components:**

CAS: 64-18-6 EINECS: 200-579-1 Index number: 607-001-00-0 Reg.nr.: 01-2119491174-37	<b>FORMIC ACID (formic acid)</b> ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302, EUH071 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 90\%$ Skin Corr. 1B; H314: $10\% \leq C < 90\%$ Skin Irrit. 2; H315: $2\% \leq C < 10\%$ Eye Dam. 1; H318: $C \geq 10\%$ Eye Irrit. 2; H319: $2\% \leq C < 10\%$	$\geq 2 - < 5\%$
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36	<b>DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)</b> ⚠ Eye Dam. 1, H318 Specific concentration limit: Eye Dam. 1; H318: $C \geq 10\%$	$\geq 1 - < 5\%$

**Regulation (EC) No 648/2004 on detergents / Labelling for contents**

non-ionic surfactants	<5%
perfumes (BENZYL SALICYLATE, LINALOOL)	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**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.

Rinse with warm water.

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

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Water spray
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid skin and eye contact.  
Slipping hazard due to leaking product.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 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.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
No special measures required.  
Keep away from frost and heat.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store and transport uprightly.
- **Storage class:** 12

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

**SECTION 8: Exposure controls/personal protection**

· 8.1 **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**64-18-6 FORMIC ACID (formic acid) (≥2-<5%)**

IOELV Long-term value: 9 mg/m<sup>3</sup>, 5 ppm

· **DNELs**

**64-18-6 FORMIC ACID (formic acid)**

Inhalative	DNEL - long-term, inhaled, local effect	9.5 mg/m <sup>3</sup> (worker) 3 mg/m <sup>3</sup> (consumer)
	DNEL - long-term, inhaled, systemic effect	9.5 mg/m <sup>3</sup> (worker) 3 mg/m <sup>3</sup> (consumer)
	DNEL - short-term, inhaled, systemic effect	19 mg/m <sup>3</sup> (worker) 9.5 mg/m <sup>3</sup> (consumer)
	DNEL - short-term, inhaled, local effect	19 mg/m <sup>3</sup> (worker) 9.5 mg/m <sup>3</sup> (consumer)

**68515-73-1 DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)**

Oral	DNEL - long-term, oral, systemic effect	35.7 mg/kg (consumer)
Dermal	DNEL - long-term, dermal, systemic effect	595,000 mg/kg (worker) 357,000 mg/kg (consumer)
	DNEL - long-term, inhaled, systemic effect	420 mg/m <sup>3</sup> (worker) 124 mg/m <sup>3</sup> (consumer)

· **PNECs**

**64-18-6 FORMIC ACID (formic acid)**

PNEC water (fresh water)	2,000 µg/l
PNEC water (marine water)	200 µg/l
PNEC water (intermittent)	1,000 µg/l
PNEC sediment (fresh water)	13.4 mg/kg
PNEC sediment (marine water)	1.34 mg/kg
PNEC (soil)	1.5 mg/kg
PNEC (sewage plant)	7.2 mg/l

**68515-73-1 DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)**

PNEC water (fresh water)	176 µg/l
PNEC water (marine water)	17.6 µg/l
PNEC water (intermittent)	270 µg/l
PNEC sediment (fresh water)	1.516 mg/kg
PNEC sediment (marine water)	0.152 mg/kg
PNEC (soil)	0.654 mg/kg
PNEC (sewage plant)	560 mg/l

· **Additional information:** The lists valid during the making were used as basis.

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further relevant information available.
- **Individual protection measures, such as personal protective equipment**
- **Respiratory protection:** Not required.
- **Hand protection**



Protective gloves

Due to missing tests, it is not possible to give exact information about the glove material for the product. Recommended is therefore:

Only use chemical-protective gloves with CE-labelling of category III.

- **Material of gloves**  
Recommended for contact with the product are protective gloves of chemical protection category III made of special nitrile (material thickness > 0.1 mm). Protective gloves should be tested for workplace specific suitability (e.g. mechanical and thermal resistance, antistatic, etc.). For first signs of wear, the protective gloves must be replaced immediately.

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 can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**  
Penetration time > 480 minutes recommended. Named penetration times can be significantly shorter in practice.
- **Eye/face protection**



Tightly sealed goggles

- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Environmental exposure controls**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** According to product specification
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range** 100 °C (7732-18-5 water)

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· <b>Flammability</b>	<i>Not applicable.</i>
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	<i>Not determined.</i>
· <b>Upper:</b>	<i>Not determined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>pH</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	<i>Not determined.</i>
· <b>Dynamic:</b>	<i>Not determined.</i>
· <b>Solubility</b>	
· <b>water:</b>	<i>Fully miscible.</i>
· <b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
· <b>Vapour pressure at 20 °C:</b>	<i>23 hPa (7732-18-5 water)</i>
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	<i>1.013 g/cm<sup>3</sup></i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>

· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	<i>Fluid</i>
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Auto-ignition temperature:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Product does not present an explosion hazard.</i>
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	<i>0 %</i>
· <b>Water:</b>	<i>93.8 %</i>
· <b>Solids content:</b>	<i>0.1 %</i>
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	<i>Not determined.</i>

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	<i>Void</i>
· <b>Flammable gases</b>	<i>Void</i>
· <b>Aerosols</b>	<i>Void</i>
· <b>Oxidising gases</b>	<i>Void</i>
· <b>Gases under pressure</b>	<i>Void</i>
· <b>Flammable liquids</b>	<i>Void</i>
· <b>Flammable solids</b>	<i>Void</i>
· <b>Self-reactive substances and mixtures</b>	<i>Void</i>
· <b>Pyrophoric liquids</b>	<i>Void</i>
· <b>Pyrophoric solids</b>	<i>Void</i>
· <b>Self-heating substances and mixtures</b>	<i>Void</i>
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Void</i>
· <b>Oxidising liquids</b>	<i>Void</i>
· <b>Oxidising solids</b>	<i>Void</i>
· <b>Organic peroxides</b>	<i>Void</i>
· <b>Corrosive to metals</b>	<i>Void</i>

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<b>· Desensitised explosives</b>	Void
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### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Product is stable.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Keep away from frost and heat.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**· LD/LC50 values relevant for classification:**
**ATE (Acute Toxicity Estimates)**

Oral	LD50	20,588 mg/kg (mouse)
Inhalative	LC50/4 h	231 mg/l (rat)

**64-18-6 FORMIC ACID (formic acid)**

Oral	LD50	700 mg/kg (mouse) 730 mg/kg (rat) (OECD TG 401)
Inhalative	LC50/4 h	7.85 mg/l (rat)

**68515-73-1 DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)**

Oral	LD50	>5,000 mg/kg (rat) (OECD TG 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD TG 402)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.

**68515-73-1 DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)**

BCOP	1.6 IVIS (Bovine) (OECD TG 437)
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- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

**· Endocrine disrupting properties**

118-58-1	benzyl salicylate
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List II
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## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · Aquatic toxicity:

##### **64-18-6 FORMIC ACID (formic acid)**

Toxicity (fish): LC50	130 mg/l, 96 h (Brachydanio rerio) (OECD TG 203) 68 mg/l, 96 h (Leuciscus idus)
Toxicity (Daphnia): EC50	32.19 mg/l, 48 h (Daphnia magna)
Toxicity (Algae): EC50	32.64 mg/l, 72 h (Scenedesmus subspicatus)

##### **68515-73-1 DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)**

Toxicity (fish): LC50	>100 mg/l, 96 h (Brachydanio rerio)
Toxicity chronic (fish): NOEC	>1-10 mg/l, 28 d (Brachydanio rerio)
Toxicity (Daphnia): EC50	>100 mg/l, 48 h (Daphnia magna)
Toxicity chronic (Daphnia): NOEC	>1-10 mg/l, 22 d (Daphnia magna)
Toxicity (Algae): EC50	>10-100 mg/l, 72 h (Scenedesmus subspicatus)

### · 12.2 Persistence and degradability

No information for the product available. The contained surfactants are readily biodegradable.

##### **64-18-6 FORMIC ACID (formic acid)**

Readily biodegradable >90 %

##### **68515-73-1 DECYL GLUCOSIDE (D-Glucopyranose, oligomeric, decyl octyl glycosides)**

Readily biodegradable >60 % (28 d) (OECD TG 301 B)

### · 12.3 Bioaccumulative potential No further relevant information available.

### · 12.4 Mobility in soil No further relevant information available.

### · 12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### · 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

### · 12.7 Other adverse effects

#### · Additional ecological information:

##### · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

#### · Recommendation

Empty the container thoroughly.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

#### · Waste disposal key:

20 01 29

15 01 10

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- **Uncleaned packaging:**
- **Recommendation:**  
Non contaminated packagings may be recycled.  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

- |   |                 |
|---|-----------------|
| · <b>14.1 UN number or ID number</b><br>· <b>ADR, IMDG, IATA</b>                            | Void            |
| · <b>14.2 UN proper shipping name</b><br>· <b>ADR, IMDG, IATA</b>                           | Void            |
| · <b>14.3 Transport hazard class(es)</b><br>· <b>ADR, ADN, IMDG, IATA</b><br>· <b>Class</b> | Void            |
| · <b>14.4 Packing group</b><br>· <b>ADR, IMDG, IATA</b>                                     | Void            |
| · <b>14.5 Environmental hazards:</b>  | Not applicable. |
| · <b>14.6 Special precautions for user</b>  | Not applicable. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b>                       | Not applicable. |
| · <b>UN "Model Regulation":</b>   | Void            |

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone-depleting potential)**

· **Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

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

**SECTION 16: Other information**

*This information given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on our present knowledge. In particular, the information derive the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. The information does not constitute any guarantee of product quality and/or quality features.*

**· Relevant phrases**

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H331 Toxic if inhaled.  
EUH071 Corrosive to the respiratory tract.

**· Training hints**

*When manufacturing and distributing the product: information and instruction in handling, safety and hygiene.*

*When transporting the product: information and instruction in ADR.*

**· Classification according to Regulation (EC) No 1272/2008**

*The skin and/or eye classification of this product was derived using bridging principles (such as dilution, interpolation within one hazard category or substantially similar mixtures; with or without expert judgement) following Article 9 (3) and Article 9 (4) of Regulation (EC) No 1272/2008.*

**· Department issuing SDS:**

Regulatory Affairs  
JL

**· Contact:** [reg@globalcosmed.eu](mailto:reg@globalcosmed.eu)**· Abbreviations and acronyms:**

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

MARPOL: International Convention for the Prevention of Marine Pollution from Ships (marine pollution)

IBC: Intermediate Bulk Container

IMO: International Maritime Organisation

ECHA: European Chemicals Agency

IVIS: In Vitro Irritancy Score

CLP regulation: "Classification, Labelling and Packaging" regulation, regulation (EC) Nr. 1272/2008

REACH (regulation): "Registration, Evaluation, Authorisation and Restriction of Chemicals" regulation, regulation (EC) Nr. 1907/2006

CE: Conformité Européenne (European Conformity)

Reg.nr.: Registration number

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

EC50: Effective concentration, 50 percent

WEL: Workplace Exposure Limits

NOAEL (NOAEC): No observed adverse effect level (concentration)

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NOEL (NOEC): No observed effect level (concentration)  
NLP: No-Longer-Polymer  
OECD: Organisation for Economic Co-operation and Development  
TG: Test Guideline  
BCOP: Bovine Corneal Opacity and Permeability  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
· **\* Data compared to the previous version altered.**

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