

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.03.2016

Version number 3

Revision: 22.03.2016

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

1.1 Product identifier

Trade name: **UNILUX 2K Washprimer 1:1**

Article number: 4020

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Application of the substance / the mixture Etch primer, Wash primer

Uses advised against SU21 Consumer uses: Private households / general public / consumers

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carolux
Kerkenbos 10 77 T

6546 BB Nijmegen – The Netherlands

Tel: 0031 (0)24 36 056 01

www.carolux.nl

Further information obtainable from: Product safety department: info@carolux.nl

1.4 Emergency telephone number:

National Poisoning Information Centre - Bilthoven - The Netherlands

T +31 (0)30 274 88 88

Restricted to physicians for information on ingredients.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Carc. 1A H350 May cause cancer.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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



GHS02



GHS07



GHS08



GHS09

Signal word Danger

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- Hazard-determining components of labelling:

butanone
Zinc chromates, as Cr

- Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H350 May cause cancer.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing vapours.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P235 Store in a well-ventilated place. Keep cool.

- Additional information:

EUH208 Contains Zinc chromates, as Cr. May produce an allergic reaction.

Restricted to professional users.

- 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

- Dangerous components %(m/m):

CAS: 78-93-3	butanone	25-50%
EINECS: 201-159-0	⚠ Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119457290-43		
CAS: 67-63-0	propan-2-ol	10-25%
EINECS: 200-661-7	⚠ Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119457558-25		
CAS: 1314-13-2	zinc oxide	10-25%
EINECS: 215-222-5	⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
Reg.nr.: 01-2119463881-32		
CAS: 1330-20-7	xylene	2,5-10%
EINECS: 215-535-7	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119488216-32		
CAS: 78-83-1	butanol	0,5-2,5%
EINECS: 201-148-0	⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
Reg.nr.: 01-2119484609-23		
CAS: 108-95-2	phenol	0,5-2,5%
EINECS: 203-632-7	⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314	
Reg.nr.: 01-2119471329-32		
CAS: 11103-86-9	Zinc chromates, as Cr	0,5-2,5%
EINECS: 234-329-8	⚠ Carc. 1A, H350; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	
Reg.nr.: 01-2119605164-50		

- SVHC

11103-86-9 Zinc chromates, as Cr

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

SECTION 4: First aid measures

- 4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product.

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- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. 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 continues, consult a doctor.

- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contactlenses.

- After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse mouth.

- 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: CO₂ or powder. Fight larger fights with alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet

- 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Metaloxide(s)

- 5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

- Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Storage temperature: < 35 °C

Keep container tightly sealed.

- Storage class: 3

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

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

78-93-3 butanone

IOELV Short-term value: 900 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm

1330-20-7 xylene

IOELV Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin

108-95-2 phenol

IOELV Short-term value: 16 mg/m³, 4 ppm
Long-term value: 8 mg/m³, 2 ppm
Skin

DNELs

78-93-3 butanone

Dermal Long-term exposure - systemic effects	1161 mg/kg bw/day (worker)
Inhalative Long-term exposure - systemic effects	600 mg/m ³ (worker)

67-63-0 propan-2-ol

Dermal Long-term exposure - systemic effects	888 mg/kg bw/day (worker)
Inhalative Long-term exposure - systemic effects	500 mg/m ³ (worker)

1314-13-2 zinc oxide

Dermal Long-term exposure - systemic effects	83 mg/kg bw/day (worker)
Inhalative Long-term exposure - systemic effects	5 mg/m ³ (worker)

1330-20-7 xylene

Dermal Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative Acute - short-term exposure - systemic effects	289 mg/m ³ (worker)
Acute - short-term exposure - local effects	289 mg/m ³ (worker)
Long-term exposure - systemic effects	77 mg/m ³ (worker)

78-83-1 butanol

Inhalative Long-term exposure - local effects	310 mg/m ³ (worker)
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108-95-2 phenol

Dermal Long-term exposure - systemic effects	1,23 mg/kg bw/day (worker)
Inhalative Acute - short-term exposure - local effects	16 mg/m ³ (worker)
Long-term exposure - systemic effects	8 mg/m ³ (worker)

PNECs

78-93-3 butanone

PNEC 284,7 mg/kg (sediment marine water)
284,74 mg/kg (sediment freshwater)
22,5 mg/kg (soil)

PNEC 709 mg/l (STP)

55,8 mg/l (aqua, freshwater)
55,8 mg/l (aqua, intermittent releases)
55,8 mg/l (aqua, marine water)

67-63-0 propan-2-ol

PNEC 552 mg/kg (sediment marine water)
552 mg/kg (sediment freshwater)
28 mg/kg (soil)

PNEC 2251 mg/l (STP)

140,9 mg/l (aqua, freshwater)

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140,9 mg/l (aqua, intermittent releases)

140,9 mg/l (aqua, marine water)

1330-20-7 xylene

PNEC 6,58 mg/l (STP)

0,237 mg/l (aqua, freshwater)

0,327 mg/l (aqua, intermittent releases)

0,327 mg/l (aqua, marine water)

78-83-1 butanol

PNEC 0,152 mg/kg (aqua, marine water)

1,52 mg/kg (sediment freshwater)

0,0699 mg/kg (soil)

PNEC 10 mg/l (STP)

0,4 mg/l (aqua, freshwater)

11 mg/l (aqua, intermittent releases)

0,04 mg/l (aqua, marine water)

108-95-2 phenol

PNEC 0,00915 mg/kg (sediment marine water) 0,0915 mg/kg (sediment freshwater) 0,136 mg/kg (soil)

PNEC 2,1 mg/l (STP)

0,0077 mg/l (aqua, freshwater)

0,031 mg/l (aqua, intermittent releases)

0,00077 mg/l (aqua, marine water)

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

8.2 Exposure controls

Personal protective equipment:

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.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter

device: Filter A.

Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product.



Protective gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Suitable materials for safety gloves (EN

374): Butyl rubber, BR

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

Thickness of the gloves ≥ 0.06 mm (butanone)Value for the permeation: Level ≥ 240 min (butanone)

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

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· Eye protection:



Tightly sealed goggles

· Body protection: Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour: · Odour:	Beige
· Odour threshold:	Characteristic Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Boiling point/Boiling range:	Undetermined. > 38 °C
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· Flash point: -18 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 425 °C

· Decomposition temperature: Not determined.

· Self-igniting:

· Danger of explosion: Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits: Lower: Upper:

· Vapour pressure at 20 °C: 1,8 Vol %

· Density at 20 °C: · Relative density: 12,0 Vol %

Vapour density: 105 hPa

· Evaporation rate: 1,07 g/cm³

· Solubility in / Miscibility with water: Not determined.

Not determined.

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

Not determined.

· Viscosity:

Dynamic at 40 °C: Slightly soluble.

Kinematic at 20 °C:

· Solvent content: > 0.21 cm²/s

VOC (EC) 30 - <40 s (ISO 6 mm)

· 9.2 Other information

64,00 %

No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

· 10.3 Possibility of hazardous reactions Reacts with acids, alkalis and oxidising agents.

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- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials:
 - Oxidizing agents.
 - Strong acids
 - Alkaline products.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

78-93-3 butanone

Oral LD50 >2500 mg/kg (rat)
 Dermal LD50 >5000 mg/kg (rabbit)
 Inhalative LC50/4h 20 mg/l (rat)

67-63-0 propan-2-ol

Oral LD50 >5000 mg/kg (rat)
 Dermal LD50 >5000 mg/kg (rabbit)

1314-13-2 zinc oxide

Oral LD50 7950 mg/kg (mouse)
 >15000 mg/kg (rat)
 Inhalative LC50/4h >5,7 mg/l (rat)

1330-20-7 xylene

Oral LD50 3523 mg/kg (rat)
 Dermal LD50 12126 mg/kg bw (rabbit)
 Inhalative LC50/4h 27124 mg/m³ (rat)

78-83-1 butanol

Oral LD50 3350 mg/kg (rat)
 Dermal LD50 >2000 mg/kg (rabbit)
 Inhalative LC50/4h >8000 ppm (rat)

108-95-2 phenol

Oral LD50 317 mg/kg (rat)
 Dermal LD50 850 mg/kg (rabbit)

Primary irritant effect:

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
Carc. 1A
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity
May cause cancer.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure
May cause drowsiness or dizziness.
- 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.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

78-93-3 butanone

EC50/48h >5000 mg/l (daphnia magna)

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LC50/96h >2500 mg/l (pimphales promelas)

1314-13-2 zinc oxide

EC50/72h 0,17 mg/l (senastrum capricornutum)

1330-20-7 xylene

IC50/72h 2,2 mg/l (algae)

EC50/48h 1 mg/l (daphnia magna)

LC50/96h 2,6 mg/l (oncorhynchus mykiss)

78-83-1 butanol

EC50/48h 1100 mg/l (daphnia magna)

EC50/72h 1799 mg/l (algae)

LC50/96h 1430 mg/l (pimphales promelas)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential

1330-20-7 xylene

LogPow 3,15 (/)

12.4 Mobility in soil No further relevant information available.

Ecotoxicological effects:

Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
15 01 04 metallic packaging

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR,ADN, IMDG, IATA

UN1263

14.2 UN proper shipping name

ADR/ADN

1263 PAINT, ENVIRONMENTALLY HAZARDOUS

IMDG

PAINT, MARINE POLLUTANT

IATA

Paint

14.3 Transport hazard class(es)

ADR,ADN, IMDG



Class

3 Flammable liquids.

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· Label	3
IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR,ADN, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: pentazinkchromaat octahydroxide
· Marine pollutant:	Yes
· Special marking (ADR/ADN):	Symbol (fish and tree)
· 14.6 Special precautions for user	Symbol (fish and tree)
· Danger code (Kemler):	Warning: Flammable liquids.
· EMS Number:	33
· Stowage Category	F-E, <u>S</u> -E
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	A
· Transport/Additional information:	Not applicable.
ADR/ADN	
· Limited quantities (LQ)	5L Code:
· Excepted quantities (EQ)	E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
IMDG	
· Limited quantities (LQ)	5L Code:
· Excepted quantities (EQ)	E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

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.

· Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

National regulations:

· Additional classification according to Decree on Hazardous Materials, Annex II:

Carcinogenic hazardous material group III (dangerous).

Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

Other regulations, limitations and prohibitive regulations

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

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Substances of very high concern (SVHC) according to REACH, Article 57

11103-86-9 Zinc chromates, as Cr

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

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.
 H350 May cause cancer.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Contact: Dhr. F. Dammers

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organisation
 ADR: Accord européen sur le transport 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)
 VOC: Volatile Organic Compounds (USA, EU)
 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
 SVHC: Substances of Very High Concern vPvB:
 very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Acute Tox. 3: Acute toxicity, Hazard Category 3
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Muta. 2: Germ cell mutagenicity, Hazard Category 2
 Carc. 1A: Carcinogenicity, Hazard Category 1A
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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