

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

- 1.1 Product identifier
- Trade name: **Acrysol**
- Article number: -
- 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 Sticker remover
- Uses advised against SU21 Consumer uses: Private households / general public / consumers
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 - Zettex Europe BV
 - Plaza 20, 4782 SK Moerdijk
 - The Netherlands
 - +31(0)888-938839
 - info@zettex.nl
 - www.zettex.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

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 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

- Signal word Danger

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- Hazard-determining components of labelling:
Hydrocarbons, C9-C11 n-alkanes, ISO-alkanes, cyclics, <2% aromatics
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes up to 5% of n-hexanes
propan-2-ol
- Hazard statements
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P285 In case of inadequate ventilation wear respiratory protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Additional information:
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):
- | | | |
|---------------------------|--|---------|
| EC number: 919-857-5 | Hydrocarbons, C9-C11 n-alkanes, ISO-alkanes, cyclics, <2% aromatics | 25-50% |
| Reg.nr.: 01-2119463258-33 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336 | |
| EC number: 921-024-6 | Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes up to 5% of n-hexanes | 10-25% |
| Reg.nr.: 01-2119475514-35 | Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 | |
| 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: 64-17-5 | ethanol | 10-25% |
| EINECS: 200-578-6 | Flam. Liq. 2, H225 | |
| Reg.nr.: 01-2119457610-43 | | |
| CAS: 107-98-2 | 1-methoxy-2-propanol | 2.5-10% |
| EINECS: 203-539-1 | Flam. Liq. 3, H226; STOT SE 3, H336 | |
| Reg.nr.: 01-2119457435-35 | | |
| CAS: 111-76-2 | 2-butoxyethanol | 2.5-10% |
| EINECS: 203-905-0 | Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | |
| Reg.nr.: 01-2119475108-36 | | |
| CAS: 67-56-1 | methanol | ≤ 0.5% |
| EINECS: 200-659-6 | Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370 | |
| Reg.nr.: 01-2119433307-44 | | |
- Additional information: For the wording of the listed hazard phrases refer to section 16.

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*** SECTION 4: First aid measures**

- 4.1 Description of first aid measures
 - General information: Immediately remove any clothing soiled by the product.
 - 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. 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)
 - 5.3 Advice for firefighters
 - Protective equipment: Wear self-contained respiratory protective device.
-

*** 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 No special precautions are necessary if used correctly.
 - 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.
 - Store away from strong alkalis.
 - Further information about storage conditions: Keep container tightly sealed.
 - Storage class: 3
 - 7.3 Specific end use(s) No further relevant information available.
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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:

107-98-2 1-methoxy-2-propanol

IOELV Short-term value: 568 mg/m³, 150 ppm
 Long-term value: 375 mg/m³, 100 ppm
 Skin

111-76-2 2-butoxyethanol

IOELV Short-term value: 246 mg/m³, 50 ppm
 Long-term value: 98 mg/m³, 20 ppm
 Skin

67-56-1 methanol

IOELV Long-term value: 260 mg/m³, 200 ppm
 Skin

· DNELs

Hydrocarbons, C9-C11 n-alkanes, ISO-alkanes, cyclics, <2% aromatics

Dermal	Long-term exposure - systemic effects	300 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	1,500 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)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes up to 5% of n-hexanes

Dermal	Long-term exposure - systemic effects	773 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	2,035 mg/m ³ (worker)

107-98-2 1-methoxy-2-propanol

Dermal	Acute - short-term exposure - systemic effects	553.5 mg/kg (worker)
	Long-term exposure - systemic effects	183 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	50.6 mg/kg (worker)
Inhalative	Acute - short-term exposure - local effects	553.5 mg/m ³ (worker)
	Long-term exposure - systemic effects	369 mg/m ³ (worker)

111-76-2 2-butoxyethanol

Dermal	Acute - short-term exposure - systemic effects	89 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	125 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	1,091 mg/m ³ (worker)
	Acute - short-term exposure - local effects	246 mg/m ³ (worker)
	Long-term exposure - systemic effects	98 mg/m ³ (worker)

· PNECs

67-63-0 propan-2-ol

PNEC 552 mg/kg (sediment marine water)
 552 mg/kg (sediment freshwater)
 PNEC 2,251 mg/l (STP)
 140.9 mg/l (aqua, freshwater)
 140.9 mg/l (aqua, intermittent releases)
 140.9 mg/l (aqua, marine water)

107-98-2 1-methoxy-2-propanol

PNEC 5.2 mg/kg (sediment marine water)

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52.3 mg/kg (sediment freshwater)

4.59 mg/kg (soil)

PNEC 100 mg/l (STP)

10 mg/l (aqua, freshwater)

1 mg/l (aqua, marine water)

111-76-2 2-butoxyethanol

PNEC 3.46 mg/kg (sediment marine water)

34.6 mg/kg (sediment freshwater)

PNEC 463 mg/l (STP)

8.8 mg/l (aqua, freshwater)

9.1 mg/l (aqua, intermittent releases)

0.88 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.

Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:

Filter A.

· Protection of hands:



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):

Nitrile rubber, NBR

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 \geq 0.4 mm (hydrocarbons)Value for the permeation: Level \geq 480 min (hydrocarbons)

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

· 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:

Colourless

· Odour:

Characteristic

· Odour threshold:

Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	36 °C
· Flash point:	12 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	240 °C
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1 Vol %
Upper:	15 Vol %
· Vapour pressure at 20 °C:	59 hPa
· Density at 20 °C:	0,78 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic at 20 °C:	1 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	100,0 %
VOC (EC)	99,98 %
Solids content:	0,0 %
· 9.2 Other information	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 strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents
- 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:

Hydrocarbons, C9-C11 n-alkanes, ISO-alkanes, cyclics, <2% aromatics

Oral LD50 >5,000 mg/kg (rat) (Test equivalent to OESO 401)

Dermal LD50 >5,000 mg/kg (rabbit) (Test equivalent to OESO 402)

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Inhalative LC50/4h >9,300 mg/l (rat)

67-63-0 propan-2-ol

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 5,840 mg/kg (rabbit) (OESO 401)

Inhalative LC50/6h >10,000 ppm (rat) (OESO 403)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes up to 5% of n-hexanes

Oral LD50 5,000 mg/kg (mouse)

>5,840 mg/kg (rat)

Dermal LD50 >2,920 mg/kg (rat)

>2,000 mg/kg (rabbit)

Inhalative LC50/4h >25,200 mg/m³ (rat)

LC50/4h 172 mg/l (rat)

107-98-2 1-methoxy-2-propanol

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rat)

111-76-2 2-butoxyethanol

Oral LD50 1,414 mg/kg (cv) (OESO 401)

Dermal LD50 >2,000 mg/kg (cv) (OESO 402)

Inhalative LC0/1h >3.1 mg/l (cv) (OESO 403)

- Primary irritant effect:
- Skin corrosion/irritation
Causes skin irritation.
- 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)
- 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
May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard
May be fatal if swallowed and enters airways.

* **SECTION 12: Ecological information**

- 12.1 Toxicity
- Aquatic toxicity:

Hydrocarbons, C9-C11 n-alkanes, ISO-alkanes, cyclics, <2% aromatics

NOEC >0.1-≤1 mg/l (fish)

LC50 >100 mg/l (algae)

>100 mg/l (bacteria)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes up to 5% of n-hexanes

EL50/48h 3 mg/l (daphnia magna) (OESO 202)

LL50/96h 11.4 mg/l (oncorhynchus mykiss) (OESO 203)

NOELR/28d 2.04 mg/l (Salmo gairdneri)

NOELR/21d 1 mg/l (daphnia magna)

ErL50/72h 30-100 mg/l (pseudokirchneriella subcapitata) (OECD)

EbL50/72h 10-30 mg/l (pseudokirchneriella subcapitata) (OECD)

NOEL/72h 3 mg/l (pseudokirchneriella subcapitata) (OECD)

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107-98-2 1-methoxy-2-propanol

LC50 >1,000 mg/l (MO)
>1,000 mg/l (ZK)
>1,000 mg/l (algae)
>1,000 mg/l (fish)

111-76-2 2-butoxyethanol

NOEC/21d >100 mg/l (daphnia magna) (OESO 201)
NOEC/72h >280 mg/l (algae) (OESO 201)
EC50/48h 1,550 mg/l (daphnia magna) (OESO 202)
EC50/72h 911 mg/l (pseudokirchneriella subcapitata) (OESO 201)
LC50/96h 1,474 mg/l (oncorhynchus mykiss) (OESO 203)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential

Hydrocarbons, C9-C11 n-alkanes, ISO-alkanes, cyclics, <2% aromatics

LogPow 5-6.7 (/)

107-98-2 1-methoxy-2-propanol

LogPow 0.37 (/)

111-76-2 2-butoxyethanol

BCF <100 (/)

LogPow 0.81 (/)

- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Harmful to fish
- Additional ecological information:
- General notes:
- Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
- 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.
- Harmful to 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
- 07 01 04* other organic solvents, washing liquids and mother liquors
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
- ADR/ADN, IMDG, IATA
- UN1993
- 14.2 UN proper shipping name
- ADR/ADN
- IMDG, IATA
- 1263 PAINT RELATED MATERIAL
- FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cycloalkanes up to 5% of n-hexanes, ISOPROPANOL (ISOPROPYL ALCOHOL))

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- 14.3 Transport hazard class(es)
- ADR/ADN, IMDG, IATA



· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR/ADN, IMDG, IATA	II
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR/ADN	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1263, PAINT RELATED MATERIAL, 3, II

* 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 P5c FLAMMABLE LIQUIDS
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t
 - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- National regulations:
- 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.
- 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.

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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.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H370 Causes damage to organs.
H411 Toxic to aquatic life with long lasting effects.

· Department issuing SDS: Product safety department.

· Contact: -

· 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

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * Data compared to the previous version altered.

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