

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

Printing date 03.05.2023

Version number 12 (replaces version 11)

Revision: 03.05.2023

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

· **1.1 Product identifier**

· **Trade name:** WAKOL NE 470 Contact Adhesive

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

No further relevant information available.

· **Application of the substance / the mixture** Adhesives

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

WAKOL GmbH
Bottenbacher Str. 30
D-66954 Pirmasens
info@wakol.com
+49 6331 8001 0

· **Informing department:**

Product safety department.
msds@wakol.de

· **1.4 Emergency telephone number:**

Emergency CONTACT (24-Hour-Number):
GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

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



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



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



Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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 GB CLP regulation.

· **Hazard pictograms**



GHS02 GHS07 GHS09

· **Signal word** Danger

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· **Hazard-determining components of labelling:**

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane
phenolic resin
ethyl acetate
acetone

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P210 Keep away from flames and hot surfaces. No smoking.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves / eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **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:** Adhesive

· **Dangerous components:**

EC number: 926-605-8	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane	>25–≤50%
Reg.nr.: 01-2119486291-36	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336, EUH066	
CAS: 141-78-6	ethyl acetate	>10–≤20%
EINECS: 205-500-4	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336,	
Reg.nr.: 01-2119475103-46	EUH066	
CAS: 67-64-1	acetone	>5–<10%
EINECS: 200-662-2	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336,	
Reg.nr.: 01-2119471330-49	EUH066	
CAS: 26022-00-4	phenolic resin	>5–≤10%
EC number: 607-846-5	⚠ Skin Sens. 1, H317	
EC number: 931-254-9	Hydrocarbons, C6, isoalkanes, <5% n-hexane	>5–<10%
Reg.nr.: 01-2119484651-34	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	
EC number: 927-510-4	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	>2.5–≤5%
Reg.nr.: 01-2119475515-33	⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	

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- **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.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect from heat.
Protect against electrostatic charges.

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**

141-78-6 ethyl acetate

WEL Short-term value: 1468 mg/m³, 400 ppm
Long-term value: 734 mg/m³, 200 ppm

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm

78-93-3 Butanone

WEL Short-term value: 899 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm
Sk, BMGV

- **DNELs**

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane

Oral DNEL 1,301 mg/kg/day (consumer (long-term))

Dermal DNEL 1,377 mg/kg/day (consumer (long-term))
13,964 mg/kg/day (worker (long-term))

Inhalative DNEL 1,131 mg/m³ (consumer (long-term))

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5,306 mg/m³ (workwr (long-term))**141-78-6 ethyl acetate**

Oral DNEL 4.5 mg/kg/day (consumer (long-term))

Dermal DNEL 37 mg/kg/day (consumer (long-term))

63 mg/kg/day (workwr (long-term))

Inhalative DNEL 734 mg/m³ (consumer (short-term))367 mg/m³ (consumer (long-term))1,468 mg/m³ (workers (short-term))734 mg/m³ (workwr (long-term))**67-64-1 acetone**

Oral DNEL 62 mg/kg/day (general population (long-term))

Dermal DNEL 62 mg/kg/day (general population (long-term))

186 mg/kg/day (workwr (long-term))

Inhalative DNEL 200 mg/m³ (general population (long-term))2,420 mg/m³ (workers (short-term))1,210 mg/m³ (workwr (long-term))**Hydrocarbons, C6, isoalkanes, <5% n-hexane**

Oral DNEL 1,301 mg/kg/day (consumer (long-term))

Dermal DNEL 1,377 mg/kg/day (consumer (long-term))

13,964 mg/kg/day (workwr (long-term))

Inhalative DNEL 1,137 mg/m³ (consumer (long-term))5,306 mg/m³ (workwr (long-term))**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**

Oral DNEL 149 mg/kg/day (consumer (long-term))

Dermal DNEL 149 mg/kg/day (consumer (long-term))

300 mg/kg/day (workwr (long-term))

Inhalative DNEL 477 mg/m³ (consumer (long-term))2,085 mg/m³ (workwr (long-term))**78-93-3 Butanone**

Oral DNEL 31 mg/kg/day (general population (long-term))

Dermal DNEL 412 mg/kg/day (general population (long-term))

1,161 mg/kg/day (workwr (long-term))

Inhalative DNEL 106 mg/m³/day (general population (long-term))600 mg/m³/day (workwr (long-term))**PNECs****141-78-6 ethyl acetate**

PNEC 0.24 mg/l (freshwater)

0.024 mg/l (sea water)

0.115 mg/l (sediment (sea water))

1.15 mg/l (sediment (freshwater))

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650 mg/l (purification plant)

1.65 mg/l (water)

PNEC 0.148 mg/kg (soil)

67-64-1 acetone

PNEC 10.6 mg/l (freshwater)

1.06 mg/l (sea water)

21 mg/l (water - partially release)

100 mg/l (STP)

PNEC 29.5 mg/kg (soil)

3.04 mg/kg (sediment (sea water))

30.4 mg/kg (sediment (freshwater))

78-93-3 Butanone

PNEC 55.8 mg/l (freshwater)

55.8 mg/l (sea water)

709 mg/l (purification plant)

PNEC 22.5 mg/kg (soil)

287.7 mg/kg (sediment (sea water))

284.7 mg/kg (sediment (freshwater))

· Ingredients with biological limit values:

78-93-3 Butanone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift

Parameter: butan-2-one

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

· 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

If the occupational exposure limit is exceeded.

· **Recommended filter device for short term use:** Combination filter A-P2

· **Hand protection**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

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· **Material of gloves**

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.4 mm

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**

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

· **Eye/face protection**



Tightly sealed goggles

· **Body protection: Protective work clothing**

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Beige

· **Smell:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

55 °C

· **Flammability**

Highly flammable.

· **Lower and upper explosion limit**

· **Lower:**

2.1 Vol %

· **Upper:**

11.5 Vol %

· **Flash point:**

-26 °C

· **Auto-ignition temperature:**

260 °C

· **Decomposition temperature:**

Not determined.

· **pH**

Mixture is non-soluble (in water).

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

· **kinematic (calculated) at 40°C:**

· **dynamic at 20 °C:**

2,000 mPas (ISO 2555)

· **Solubility**

· **Water:**

Not miscible or difficult to mix.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Steam pressure at 20 °C:**

98.7 hPa

· **Density and/or relative density**

· **Density at 20 °C**

0.88 g/cm³ (EN ISO 2811-1)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

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- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Organic solvents:** 75.0 %
- **VOC** 75.0 %
- **Solids content:** 25.0 % (DIN EN 827.8.2)
- **Change in condition**
- **Evaporation rate** Not determined.
- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Highly flammable liquid and vapour.
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Chlorine compounds

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.

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· LD/LC50 values that are relevant for classification:**Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane**

Oral LD50 >3,350 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402)

Inhalative LC50/4h >20 mg/l (rat) (OECD 403)

141-78-6 ethyl acetate

Oral LD50 5,620 mg/kg (rat)

Dermal LD50 >20,000 mg/kg (rabbit)

Inhalative LC50/8h 58 mg/l (rat)

67-64-1 acetone

Oral LD50 5,800 mg/kg (rat) (OECD RL 401)

Dermal LD50 >15,800 mg/kg (rat)

Inhalative LC50/4h 76 mg/l (rat)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402)

Inhalative LC50/4h >20 mg/l (rat) (OECD 403)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Oral LD50 >2,920 mg/kg (rabbit) (OECD 402)

Dermal LD50 >5,840 mg/kg (rat) (OECD 401)

Inhalative LC50/4h >23.3 mg/l (rat) (OECD 403)

78-93-3 Butanone

Oral LD50 3,300 mg/kg (rat)

Dermal LD50 >8,000 mg/kg (rbt)

Inhalative LC50/4h 10,000 mg/l (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.**· Serious eye damage/irritation** Based on available data, the classification criteria are not met.**· Respiratory or skin sensitisation**

May cause an allergic skin reaction.

· 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** Based on available data, the classification criteria are not met.**· 11.2 Information on other hazards****· Endocrine disrupting properties**

None of the ingredients is listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane

ErL50(72h) 55 mg/l (*Pseudokirchneriella subcapitata*)

EL50/48 h 3 mg/l (*Daphnia magna*)

LL50/96 h 12 mg/l (*Oncorhynchus mykiss*)

141-78-6 ethyl acetate

LC50/96h 230 mg/l (*Pimephales promelas*)

LC50/48h 333 mg/l (*Leuciscus idus*)

EC10/18h 2,900 mg/l (*Pseudomonas putida*)

EC50/48h 3,300 mg/l (*Scenedesmus subspicatus*)

717 mg/l (*Daphnia magna*)

67-64-1 acetone

NOEC/16h 1,700 mg/l (*Pseudomonas putida*)

NOEC/48h 4,740 mg/l (*Selenastrum capricornutum*)

LC50/96h 11,300 mg/l (*Leuciscus idus*) (DIN 38412 T.15)

5,540 mg/l (*Oncorhynchus mykiss*)

8,300 mg/l (*Lepomis macrochirus*)

LC50/48h 12,600 mg/l (*Daphnia magna*)

11,300 mg/l (*Leuciscus idus*)

EC5/16h 1,700 mg/l (*Pseudomonas putida*)

EC5/72h 28 mg/l (*Entosiphon sulcatum*)

EC5/8d 530 mg/l (*Microcystis aerruginosa*)

EC50/18h 12,600–12,700 mg/l (*Daphnia magna*)

EC50/48h 6,100 mg/l (*Daphnia magna*)

EC50/96h 8,300 mg/l (*Lepomis macrochirus*)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

LC50/48h 3.87 mg/l (*Daphnia magna*)

>1 mg/l (*Oryzias latipes*)

ErL50(72h) 55 mg/l (*Pseudokirchneriella subcapitata*)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

EL50/48 h 3 mg/l (*Daphnia magna*)

EL50/72 h 10–30 mg/l (*Pseudokirchneriella subcapitata*)

LL50/96 h 13.4 mg/l (*Oncorhynchus mykiss*)

78-93-3 Butanone

LC50/96h 3,220 mg/l (*Pimephales promelas*)

EC5/16h 1,150 mg/l (*Pseudomonas putida*)

IC5/7d 1,300 mg/l (algas)

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- EC50/48h >100 mg/l (*Daphnia magna*)
- **12.2 Persistence and degradability** No further relevant information available.
- **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**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for 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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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.
Must be specially treated adhering to official regulations.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1133
- **14.2 UN proper shipping name**
- **ADR** 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS
- **IMDG** ADHESIVES, MARINE POLLUTANT
- **IATA** ADHESIVES
- **14.3 Transport hazard class(es)**

- **ADR, IMDG**



- **Class** 3 Flammable liquids.
- **Label** 3

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· **IATA**



· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: Hydrocarbons, C6-C7, isoalkanes, cyclics
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	-
· EMS Number:	F-E,S-D
· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	

· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	E

· IMDG	Packing Group is in accordance with IMDG-Code 2.3.2.3.
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1133 ADHESIVES, 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

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- **National regulations**
- **VOC (EU) 655.5 g/l**
- **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.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· **Abbreviations and acronyms:**

- 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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK 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
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1B: Skin sensitisation – Category 1B
- 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

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