

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

Printing date 26.02.2021

Version number 3

Revision: 26.02.2021

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

- 1.1 Product identifier

- Trade name: ergo 1905 - Component A ergo 1907

- 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:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41- 58-272 0 272

- Only representative (REACH) and importer (CLP):

Kisling Deutschland GmbH

Salzstraße 15

D-74676 Niedernhall

Tel +49 8171 99982 30

- Further information obtainable from: ergo@kisling.com

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: +49-700-24 112 112 (KAR)

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 Dam. 1 H318 Causes serious eye damage.

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

Repr. 2 H361d Suspected of damaging the unborn child.

Aquatic Chronic 2 H411 Toxic 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



GHS05 GHS07 GHS08 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

2-phenoxyethyl methacrylate

α,α -dimethylbenzyl hydroperoxide

2-hydroxyethyl methacrylate

hydroxypropyl methacrylate, mixture of CAS 923-26-2 and 2761-09-3

Ethoxylated Bisphenol-A Dimethacrylate

- Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.
 H411 Toxic to aquatic life with long lasting effects.

- Precautionary statements

P261 Avoid breathing vapours.
 P280 Wear protective gloves / eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms


GHS05 GHS07 GHS08 GHS09

- Signal word Danger
- Hazard-determining components of labelling:

2-phenoxyethyl methacrylate
 α,α -dimethylbenzyl hydroperoxide
 2-hydroxyethyl methacrylate
 hydroxypropyl methacrylate, mixture of CAS 923-26-2 and 2761-09-3
 Ethoxylated Bisphenol-A Dimethacrylate

- Hazard statements

H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H361d Suspected of damaging the unborn child.

- Precautionary statements

P261 Avoid breathing vapours.
 P280 Wear protective gloves / eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P310 Immediately call a POISON CENTER/doctor.
 P333+P313 If skin irritation or rash occurs: 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:** Adhesive

- Dangerous components:

CAS: 10595-06-9 EINECS: 234-201-1 Reg.nr.: 01-2120752383-55-xxxx	2-phenoxyethyl methacrylate Repr. 2, H361d; Aquatic Chronic 2, H411; Skin Sens. 1A, H317	≥ 25 - ≤ 50%
CAS: 868-77-9 EINECS: 212-782-2 Index number: 607-124-00-X Reg.nr.: 01-2119490169-29-xxxx	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	> 15 - ≤ 30%

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CAS: 27813-02-1 EINECS: 248-666-3 Index number: 607-125-00-5	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 10 - ≤ 30%
CAS: 41637-38-1 EC number: 609-946-4	Ethoxylated Bisphenol-A Dimethacrylate Aquatic Chronic 4, H413	> 5 - ≤ 15%
CAS: 80-15-9 EINECS: 201-254-7 Index number: 617-002-00-8	α,α -dimethylbenzyl hydroperoxide Org. Perox. E, H242; Acute Tox. 3, H331; STOT RE 2, H373; Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; STOT SE 3, H335	≥ 0.25 - < 1%
CAS: 119-47-1 EINECS: 204-327-1	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol Repr. 2, H361f; Aquatic Chronic 4, H413	≤ 1%

- Regulation (EC) No 648/2004 on detergents:

aliphatic hydrocarbons

<5%

- 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
- General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove any clothing soiled by the product.

- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

- 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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

- Additional information

Cool endangered receptacles with water spray.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

- 6.2 Environmental precautions:

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

Do not allow product to reach sewage system or any water course.

- 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

- 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 10 for information on "stability and reactivity".

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- 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 only in the original receptacle.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- **Maximum storage temperature:** 28 °C

- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 10-13

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

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

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

- Ingredients with limit values that require monitoring at the workplace:

868-77-9 2-hydroxyethyl methacrylate

MAK (Germany) | vgl. Abschn. IIb

80-15-9 α,α -dimethylbenzyl hydroperoxide

MAK (Germany) | als Dampf und Aerosol; vgl. Abschn. Xa

- DNELs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Dermal | Longterm System | 4.2 mg/kg bw/day (General population)

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- PNECs		
27813-02-1 methacrylic acid, monoester with propane-1,2-diol		
Oral	PNEC oral	mg/kg Food (General population) Kein Bioaccumulationspotenzial
	PNEC Freshwater	0.904 mg/l (General population)
	PNEC Freshwater sed	6.28 mg/kg (General population)
	PNEC Marinewater	0.904 mg/l (General population)
	PNEC Soil	0.727 mg/kg (General population)
	PNEC STP	10 mg/l (General population)
	PNEC Marinewater sed	6.28 mg/kg (General population)

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

- 8.2 Exposure controls

- 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.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

filter A (EN 141)

- Protection of hands:

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

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

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

- Material of gloves

Find below a list of appropriate protective gloves for chemical surrounding:

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Permeation time / penetration time: = 480 minutes (DIN EN 374):

Chloropren Nitril I, Nr. 0727

Viton, Nr. 0890

Butyl II, Nr. 0897

Butyl, Nr. 0898

.

Permeation time / penetration time: = 240 minutes (DIN EN 374):

Naturalatex I, Nr. 0395 oder 0403

Chloropren Nitril II, Nr. 0717

Chloropren, Nr. 0720, 0722, 0723, 0725 oder 0726

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

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of KCL company (e-mail: vertrieb@kcl.de).

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The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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.

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- Penetration time of glove material

Permeation time / penetration time: see above (material of gloves)

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

- Eye protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid

Colour: White

- Odour: Characteristic

- Odour threshold: Not determined.

- pH-value: Not determined.

- Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

- Flash point: > 70 °C

- Flammability (solid, gas): Not applicable.

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not self-igniting.

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

Lower: Not determined.

Upper: Not determined.

- Oxidising properties Not determined.

- Vapour pressure: Not determined.

- Density at 20 °C: 1 g/cm³

- Relative density Not determined.

- Vapour density Not determined.

- Evaporation rate Not determined.

- Solubility in / Miscibility with water:

Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:

Dynamic at 25 °C: 7000 mPas

Kinematic: Not determined.

- 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 and stored according to specifications.

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- Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions**
Exothermic polymerisation.
Forms explosive gas mixture with air.
 - **10.4 Conditions to avoid** No further relevant information available.
 - **10.5 Incompatible materials:** No further relevant information available.
 - **10.6 Hazardous decomposition products:**
No dangerous products of decomposition if used and stored according to specifications.

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:

10595-06-9 2-phenoxyethyl methacrylate

Oral	LD50	5,050 mg/kg (Rat, male/female)
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868-77-9 2-hydroxyethyl methacrylate

Oral	LD50	5,050 mg/kg (Rat, male/female)
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Dermal	LD50	3,000 mg/kg (Rabbit)
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80-15-9 α,α -dimethylbenzyl hydroperoxide

Oral	LD50	382 mg/kg (Rat, male/female)
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Dermal	LD50	500 mg/kg (Rat, male/female)
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Inhalative	LC50/4 h	1.37 mg/l (Rat, male/female)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Additional toxicological information:**
No experimentally found toxicological data are available for this preparation.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Repr. 2
- **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**
Suspected of damaging the unborn child.
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

- Toxicity to fish:

868-77-9 2-hydroxyethyl methacrylate

LC50/96 h	213 - 242 mg/l (Pimephales promelas)
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- **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.

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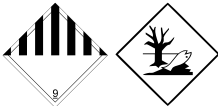
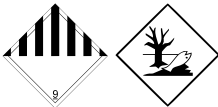
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- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
 Harmful to aquatic organisms
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Danger to drinking water if even small quantities leak into the ground.
 Do not allow product to reach ground water, water course or undiluted sewage system.
- **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** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number - ADR, IMDG, IATA	UN3082
- 14.2 UN proper shipping name - ADR - IMDG - IATA	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate, cumene hydroperoxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate, cumene hydroperoxide), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-phenoxyethyl methacrylate, cumene hydroperoxide)
- 14.3 Transport hazard class(es) - ADR  - Class - Label	9 (M6) Miscellaneous dangerous substances and articles. 9
- IMDG, IATA  - Class - Label	9 Miscellaneous dangerous substances and articles. 9
- 14.4 Packing group - ADR, IMDG, IATA	III

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- 14.5 Environmental hazards:

- | | |
|---------------------------|------------------------|
| - Marine pollutant: | Symbol (fish and tree) |
| - Special marking (ADR): | Symbol (fish and tree) |
| - Special marking (IATA): | Symbol (fish and tree) |

- 14.6 Special precautions for user

- | | |
|---|---------|
| - Hazard identification number (Kemler code): | 90 |
| - EMS Number: | F-A,S-F |
| - Stowage Category | A |

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

- Transport/Additional information:

ADR: SV375
 IMDG-Code: 2.10.2.7
 IATA-DGR: A197 (375)

- ADR

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L
 Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

- Transport category
- Tunnel restriction code
- Remarks:

3
 -
 SV375:
 These substances are not subject to the other provisions of ADR / RID if they are transported in individual or composite packaging with a net quantity of no more than 5 l of liquid substances or a net mass of no more than 5 kg of solids per individual or inner packaging, provided that the packaging is used correspond to the general provisions of subsections 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

- IMDG

- Limited quantities (LQ)
- Excepted quantities (EQ)

5L
 Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

- Remarks:

2.10.2.7:
 Marine pollutants in individual packaging or composite packaging with a net quantity per individual or inner packaging of no more than 5 L for liquids or a net mass per individual or inner packaging of no more than 5 kg for solids are not subject to any other provisions of this Code applicable to marine pollutants, provided that the packaging complies with the general Meet the requirements in 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants that also meet the criteria for inclusion in another class, all provisions of this Code that apply to any further hazards continue to apply.

- IATA

- Remarks:

A 197 (375):
 These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the

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- | | |
|--------------------------|---|
| - | packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. |
| - UN "Model Regulation": | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-PHENOXYETHYL METHACRYLATE, CUMENE HYDROPEROXIDE), 9, III |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment**
- **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
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None of the ingredients is listed.

- **National regulations:**

- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

- **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**

- H242 Heating may cause a fire.
- H302 Harmful if swallowed.
- 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.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

- **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)
 DNEL: Derived No-Effect Level (REACH)

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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
Org. Perox. E: Organic peroxides – Type E/F
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
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

- * **Data compared to the previous version altered.**

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