

**Safety data sheet**  
**complying with Regulation 1907/2006/EC (REACH Regulation),**  
**EU 2020/878 and Regulation No 1272/2008/EC (CLP)**

Printing date 21.04.2023

Version number 2 (replaces version 1)

Revision: 21.04.2023

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** KLB-SYSTEM EPOXID EP 52 RAPID Component A**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:**Epoxy resin  
Epoxy coating  
Primer**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**PENETRON HELLAS S.A. G.E.MH. No: 07278001000  
50, THRAKOMAKEDONON AV., 136 79 ACHARNES, GREECE  
TEL.: +30 210 2448250 - FAX: + 30 210 2476803  
Email: info@penetron.gr Site: www.penetron.gr**1.4 Emergency telephone number:**

European Emergency Tel.: 112

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS09 environment

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



GHS07

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

**2.2 Label elements****Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms:**

GHS07 GHS09

**Signal word:** Warning

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**Trade name:** KLB-SYSTEM EPOXID EP 52 RAPID Component A

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**Hazard-determining components of labelling:**

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane  
 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**Hazard statements:**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

**PBT:** Not applicable.

**vPvB:** Not applicable.

\* **SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

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

**Ingredients according Regulation (EU) 2020/878:**

CAS: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)] bisoxirane ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	50-100%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4 Reg.nr.: 01-2119485289-22-XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs. ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%

**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:**

Take affected persons out into the fresh air.  
 Seek immediate medical advice.

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**After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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 contact lenses and continue rinsing for several minutes

Avoid strong water jet-risk of cornea damage, consult a doctor.

**After swallowing:**

Consult a physician or poison control center.

Never give anything by mouth to an unconscious person.

**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:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Fight larger fires with water spray or alcohol resistant foam.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

For information on protective measures, see sections 7 and 8.

**6.1.1 For non-emergency personnel** Avoid contact with dripping or leaking material**6.1.2 For emergency responders**

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

**6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

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 and sawdust).

Dispose contaminated material as waste according to section 13.

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation.

Avoid contact with skin and eyes.

Avoid inhaling vapors.

Do not eat, drink or smoke during the usage of the product.

Wash contaminated clothing before reuse.

Wash hands before each break and after finishing work.

**Information about fire - and explosion protection:** No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

**Storage:** Store in cool, dry conditions in well sealed receptacles.

**Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep container tightly sealed.

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

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

### 8.1 Control parameters

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### DNELs

(CAS: 1675-54-3) 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane

Workers:

Inhalation - Long-term exposure, Systemic effects: 4.93 mg/m<sup>3</sup>

Dermal - Long-term exposure, systemic effects: 0.75 mg/kg bw/d

Consumers:

Inhalation - Long-term exposure, Systemic effects: 0.87 mg/m<sup>3</sup>

Dermal - Long-term exposure, systemic effects: 89.3 mg/kg bw/d

Oral - Long-term exposure, Systemic effects: 0.5 mg/kg bw/d

(CAS: 68609-97-2) Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Workers:

Inhalation - Long-term exposure, Systemic effects: 3,6 mg/m<sup>3</sup>

Dermal - Long-term exposure, Systemic effects: 1 mg/kg bw/d

Consumers:

Inhalation - Long-term exposure, Systemic effects: 0.87 mg/m<sup>3</sup>

Dermal - Long-term exposure, Systemic effects: 0,5 mg/kg bw/d

Oral - Long-term exposure, Systemic effects: 0,5 mg/kg bw/d

#### PNECs

(CAS: 1675-54-3) 2,2' - [(1-methylethylidene) bis(4,1phenyleneoxymethylene)] bis-oxiranium.

STP: 10 mg/l

Fresh water: 0.006 mg/l

Fresh water (intermittent releases): 0.018 mg/L

Sediment (freshwater): 0.341 mg/kg sediment dw

marine water: 0.001 mg/l

Sediment (marine water): 0.034 mg/kg sediment dw

Soil: 0.065 mg/kg soil dw

Secondary poisoning: 11 mg/kg food

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(CAS: 68609-97-2) Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Fresh water: 0,106 mg/L

Fresh water (intermittent releases): 0,072 mg/L

Marine water: 0,011 mg/L

STP: 10 mg/L

Sediment (fresh water): 307,16 mg/kg sediment dw

Sediment (marine water): 30,72 mg/kg sediment dw

Soil: 1,234 mg/kg soil dw

**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****8.2.1. Appropriate engineering controls** No other recommendations, see chapter 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Do not breathe vapours or mists.

Do not eat, drink or smoke while using the product.

Immediately remove all soiled and contaminated clothing.

Wash contaminated clothes before reusing them.

Be sure to clean skin thoroughly after work and before breaks.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

**Hand protection**

Wear suitable gloves (EN 374)

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**

Butyl-rubber, thickness: 0.7 mm

Nitrile rubber (NBR): thickness = 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 mixture 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 determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

**Eye/face protection**

Tightly sealed goggles (EN 166).

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**Body protection:**

Protective work clothing

**Environmental exposure controls** Prevent enter of the product into drains, surface and groundwater and soil.

\* **SECTION 9: Physical and chemical properties**

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

<b>Physical state</b>	Liquid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined
<b>Flammability</b>	Not applicable
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Flash point:</b>	>100 °C
<b>Auto-ignition temperature:</b>	Not Flammable
	455 °C
<b>Decomposition temperature:</b>	Not determined
<b>pH</b>	Not determined
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic at 20 °C:</b>	1.000 mPas (DIN EN ISO 3219)
<b>Solubility</b>	
<b>water:</b>	Not miscible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Vapour pressure:</b>	Not determined
<b>Vapour pressure:</b>	
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	1.12 g/cm <sup>3</sup> (DIN EN ISO 2811-2)
<b>Relative density</b>	Not determined
<b>Vapour density</b>	Not determined

**9.2 Other information****Appearance:**

**Form:** Fluid Liquid

**Important information on protection of health and environment, and on safety.**

**Ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Cloud point / clarification point:**

**Oxidising properties** Not oxidising

**Evaporation rate** Not determined

**Information with regard to physical hazard classes**

**Explosives** Void

**Flammable gases** Void

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<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** Stable under normal conditions

**10.2 Chemical stability** Material is stable under normal conditions.

**Thermal decomposition / conditions to be avoided** Stable at environment temperature.

**10.3 Possibility of hazardous reactions**

Exothermic polymerisation

Reacts with alcohols, amines, aqueous acids and alkalis.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials** No further relevant information available.

**10.6 Hazardous decomposition products** Irritant gases/vapours

### SECTION 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

**CAS: 1675-54-3 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane**

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

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

**CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

Dermal	LD50	26,800 mg/kg (rabbit)
--------	------	-----------------------

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/irritation** Causes serious eye irritation.

**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** 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.

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**Additional toxicological information:****Repeated dose toxicity** 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.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 1675-54-3 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane**

EC50 (72h)	9.4 mg/l (algae)
EC50 (48h)	1.8 mg/l (Daphnia magna)
LC50 (96h)	2 mg/l (Leuciscus Idus)
NOEC (21d)	0.3 mg/l (Daphnia magna)

**CAS: 68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.**

EC50 (48h)	6.08 mg/l (Daphnia magna)
LC50 (96h)	>5.000 mg/l (Leuciscus Idus)

**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:**

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.

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

Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

Dispose according to National Regulations.

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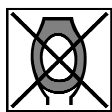
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Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

**Waste disposal key:**

08 04 09 - waste adhesives and sealants containing organic solvents or other dangerous substances.

**European waste catalogue**

HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

\*

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR, IMDG, IATA

UN3082

**14.2 UN proper shipping name**

ADR

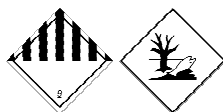
3082 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-  
methylethylidene)bis(4,1-phenyleneoxymethylene)]  
bisoxirane)

IMDG, IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-  
phenyleneoxymethylene)]bisoxirane)

**14.3 Transport hazard class(es)**

ADR, IATA



Class

9 Miscellaneous dangerous substances and articles.

Label

9

IMDG



Class

9 Miscellaneous dangerous substances and articles.

Label

9

**14.4 Packing group**

ADR, IMDG, IATA

III

**14.5 Environmental hazards:****Marine pollutant:**

Environmental Hazardous

Yes

**Special marking (ADR):**

Symbol (fish and tree)

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<b>Special marking (IATA):</b>	Symbol (fish and tree)
<b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
<b>Hazard identification number (Kemler code):</b>	90
<b>EMS Number:</b>	F-A,S-F
<b>Stowage Category</b>	A
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.

**Transport/Additional information:****ADR**

<b>Limited quantities (LQ)</b>	5L
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>Transport category</b>	3
<b>Tunnel restriction code</b>	(-)

**IMDG**

<b>Limited quantities (LQ)</b>	5L
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE), 9, III

\* **SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

**Directive 2012/18/EU****Named dangerous substances - ANNEX I** Substance is not listed.**Seveso category E2** Hazardous to the Aquatic Environment**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t**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.

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**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

It doesn't contain substances of very high concern (SVHC).

**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**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

**Training hints**


Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

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

Skin corrosion/irritation  
 Serious eye damage/irritation  
 Skin sensitisation  
 Hazardous to the aquatic environment - long-term  
 (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Department issuing SDS:**

**SUST**  SUSTCHEM S.A.  
**CHEM** REACH & Chemical Services Department  
CONSULTING A: 144, 3rd Septemvriou, GR 112 51 | Athens, Greece  
 T: +30 210 8252510 | F: +30 210 8252575  
 W: www.sustchem.gr | E: info@suschem.gr

**Version number of previous version: 1****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)

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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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

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

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

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