

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 B**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 coating

Hardening agent

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:**

GHS08 health hazard

Repr. 2 H361f Suspected of damaging fertility.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

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



GHS07

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.

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Hazard pictograms:

GHS05 GHS07 GHS08 GHS09

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

m-phenylenebis(methylamine)

4-tert-butylphenol

Fatty acids C18 unsat, reaction products with triethylenetetramine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

trimethylhexane-1,6-diamine

Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Determination of endocrine-disrupting properties**

CAS: 98-54-4 4-tert-butylphenol

List I; II

* **SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture: consisting of the following components.

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Ingredients according Regulation (EU) 2020/878:

CAS: 98-54-4 EINECS: 202-679-0 Index number: 604-090-00-8	4-tert-butylphenol ⚠ Repr. 2, H361f; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315	10-<25%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-XXXX	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	10-<25%
CAS: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-XXXX	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-<25%
CAS: 1226892-44-9 EC number: 629-765-4	Fatty acids C18 unsat, reaction products with triethylenetetramine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	10-<25%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-XXXX	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1A, H317 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	5-10%
CAS: 38294-64-3 NLP: 500-101-4 Reg.nr.: 01-2119965165-33-XXXX	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Skin Sens. 1, H317; Aquatic Chronic 3, H412	5-<10%
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317; Aquatic Chronic 3, H412	3-<5%

SVHC

CAS: 98-54-4 | 4-tert-butylphenol

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:**

Immediately remove any clothing soiled by the product.

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

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.

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In case of skin irritation, consult a physician.

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:

Rinse mouth and drink plenty of water.

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:**

CO₂, 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.

Avoid inhalation of vapors.

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.

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

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.

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: 100-51-6) benzyl alcohol

Consumers:

Short-term exposure, acute systemic effects, oral: 20 mg/kg

Long-term exposure, systemic effects, oral: 4 mg/kg

Short-term exposure, systemic effects, inhalation: 27 mg/m³

Long-term exposure, systemic effects, inhalation: 5.4 mg/m³

Workers:

Short-term exposure, systemic effects, inhalation: 110 mg/m³

Long-term exposure, systemic effects, inhalation: 22 mg/m³

Short-term exposure, systemic effects, dermal: 40 mg/kg

Long-term exposure, systemic effects, dermal: 8 mg/kg

(CAS: 2855-13-2) 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Workers:

Inhalation - Long-term exposure, Local effects: 0.073 mg/m³

Inhalation - Acute/short-term exposure, Local effects: 0.073 mg/m³

Consumers:

Oral - Long-term exposure, Systemic effects: 0.3 mg/kg bw/d

Oral - Acute/short-term exposure, Systemic effects: 0.3 mg/kg bw/d

(CAS: 38294-64-3) 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Workers:

Inhalation - Long-term exposure, Systemic effects: 0.493 mg/m³

Dermal - Long-term exposure, Systemic effects: 0.14 mg/kg bw/d

Consumers:

Inhalation - Long-term exposure, Systemic effects: 74 µg/m³

Dermal - Long-term exposure, Systemic effects: 50 µg/kg bw/d

Oral - Long-term exposure, Systemic effects: 50 µg/kg bw/d

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PNECs

(CAS: 100-51-6) benzyl alcohol

Soil: 0.456 mg/kg

Sewage treatment plant: 39 mg/l

Marine water sediment: 0.527 mg/kg

Marine water: 0.1 mg/l

Freshwater sediment: 5.27 mg/kg

Freshwater: 1 mg/l

(CAS: 2855-13-2) 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fresh water: 0.06 mg/L

Fresh water (intermittent releases): 0.23 mg/L

Marine water: 0.006 mg/L

STP: 3.18 mg/L

Sediment (fresh water): 5.784 mg/kg sediment dw

Sediment (marine water): 0.578 mg/kg sediment dw

Soil: 1.121 mg/kg soil dw

(CAS: 38294-64-3) 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Fresh water: 0,011 mg/L

Fresh water (intermittent releases): 0,111 mg/L

Marine water: 0,001 mg/L

STP: 10 mg/L

Sediment (fresh water): 4320 mg/kg sediment dw

Sediment (marine water): 432 mg/kg sediment dw

Soil: 864 mg/kg soil dw

Secondary poisoning: 1 mg/kg food

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 skin and eyes.

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.

Wash your hands before breaks and after use.

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.

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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).

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****Physical state**

Liquid

Colour:

yellowish

Odour:

Amine-like

Odour threshold:

Not determined

Flammability

Not applicable

Lower and upper explosion limit**Lower:**

1.3 Vol %

Upper:

13 Vol %

Flash point:

>100 °C

Auto-ignition temperature:Not Flammable
435 °C**Decomposition temperature:**

Not determined

pH

Not determined

Viscosity:**Kinematic viscosity**

Not determined

Dynamic:

Not determined

Solubility**water:**

Not determined

Partition coefficient n-octanol/water (log value)

Not determined

Vapour pressure at 20 °C:<20 hPa (CAS: 1226892-44-9 Fatty acids C18 unsat,
reaction products with triethylenetetramine)**Vapour pressure:****Density and/or relative density****Density at 20 °C:**1.02 g/cm³ (DIN EN ISO 2811-2)

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Relative density Not determined
Vapour density 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**Aerosols** Void**Oxidising gases** Void**Gases under pressure** Void**Flammable liquids** Void**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** 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** 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** Irritant gases/vapours

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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 relevant for classification:**ATE (Acute Toxicity Estimates)**

Oral	LD50	3,694 mg/kg
Inhalative	ATEmix (vapours)	55 mg/l (rat)

CAS: 98-54-4 4-tert-butylphenol

Oral	LD50	4.000 mg/kg (rat)
Dermal	LD50	2.318 mg/kg (rabbit)

CAS: 100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	ATEmix (vapours)	11 mg/l (rat)
	LC50	>4,178 mg/m ³ (rat)

CAS: 1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	930 mg/kg (rat)
Dermal	LD50	>3,100 mg/kg (rabbit)
Inhalative	ATEmix (vapours)	11 mg/l (rat)

CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

CAS: 25620-58-0 trimethylhexane-1,6-diamine

Oral	LD50	910 mg/kg (rat)
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Skin corrosion/irritation Causes severe skin burns and eye damage.**Serious eye damage/irritation** Causes serious eye damage.**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**

The product is classified as Reproductive toxicity Category 2

Suspected of damaging fertility.

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.**Additional toxicological information:****Repeated dose toxicity** Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Repr. 2

11.2 Information on other hazards**Endocrine disrupting properties**

CAS: 98-54-4 4-tert-butylphenol

List I; II

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 1477-55-0 m-phenylenebis(methylamine)

EC50 (72h)	33 mg/l (ssu)
EC50 (48h)	15.2 mg/l (Daphnia)
LC50 (96h)	87.6 mg/l (Oryzias latipes)

CAS: 100-51-6 benzyl alcohol

EC50(72h)	770 mg/l (Daphnia magna)
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CAS: 98-54-4 4-tert-butylphenol

EC50(48h)	3.4 mg/l (Daphnia magna)
EC50(72h)	22.7 mg/l (Selenastrum capricornutum)
LC50(96h)	5.1 mg/l (Oryzias latipes)

CAS: 2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC50(48h)	23 mg/l (Daphnia magna)
EC50(72h)	>50 mg/l (ssu)
LC50(96h)	110 mg/l (Leuciscus Idus)

CAS: 25620-58-0 trimethylhexane-1,6-diamine

EC10	72 mg/l (Pseudonomas putida)
EC50(24h)	31.5 mg/l (Daphnia magna)
EC50(72h)	43.5 mg/l (Pseudokirchneriella subcapitata)
LC50(96h)	174 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 For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Remark: Very 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

Very toxic for aquatic organisms

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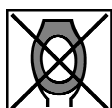
* **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Recommendation



Dispose according to National Regulations.



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

HP6	Acute Toxicity
HP8	Corrosive
HP10	Toxic for reproduction
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

UN2735

14.2 UN proper shipping name

ADR

2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids C18 unsat, reaction products with triethylenetetramine, m-phenylenebis(methylamine)), ENVIRONMENTALLY HAZARDOUS AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids C18 unsat, reaction products with triethylenetetramine, m-phenylenebis(methylamine)), MARINE POLLUTANT

IMDG

IATA

AMINES, LIQUID, CORROSIVE, N.O.S. (Fatty acids C18 unsat, reaction products with triethylenetetramine, m-phenylenebis(methylamine))

14.3 Transport hazard class(es)

ADR, IMDG



Class

8 Corrosive substances.

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Label

8

IATA**Class**

8 Corrosive substances.

Label

8

14.4 Packing group**ADR, IMDG, IATA**

II

14.5 Environmental hazards:

Environmental Hazardous

Marine pollutant:

Yes

Symbol (fish and tree)

Symbol (fish and tree)

Special marking (ADR):

Warning: Corrosive substances.

14.6 Special precautions for user**Hazard identification number (Kemler code):**

80

EMS Number:

F-A,S-B

Segregation groups

(SGG18) Alkalis

Stowage Category

A

Segregation Code

SG35 Stow "separated from" SGG1-acids

14.7 Maritime transport in bulk according to IMO**instruments**

Not applicable.

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

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":

UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S.
 (FATTY ACIDS C18 UNSAT, REACTION
 PRODUCTS WITH TRIETHYLENETETRAMINE, M-
 PHENYLENEBIS(METHYLAMINE)), 8, II,
 ENVIRONMENTALLY HAZARDOUS

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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

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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.

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**

CAS: 98-54-4 | 4-tert-butylphenol

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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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

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H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful 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
 Reproductive toxicity
 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:

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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)
 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
 Acute Tox. 4: Acute toxicity – Category 4
 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
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1A: Skin sensitisation – Category 1A
 Repr. 2: Reproductive toxicity – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic 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.**