

Safety Data Sheet

[Prepared in accordance with Regulation EC 1907/2006 (REACH), as amended]

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

1.1. Product identifier

Trade name: TECHNIPLAST 400 UVLS SKŁADNIK A

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

Relevant identified uses: chemical product for construction and industry; professional use; consumer use; raw

material.

Uses advised against: any type of use not listed above.

1.3. Details of the supplier of the safety data sheet

Manufacturer: TECHNIART Sp. z o.o.

Address: ul. Rumiankowa 2, Nowa Bukówka, 96-321 Żabia Wola, PL

Telephone/fax: +48 46 857 83 94, +48 46 857 83 95

E-mail address for a competent person responsible for SDS: biuro@techniart.pl

1.4. Emergency telephone number

112 (general emergency telephone number)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, Aquatic Chronic 2 H411

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

2.2. Label elements

Hazard pictograms and signal words





Warning

Hazardous components placed on the label

Contains: reaction product: bisphenol-A-(epichlorhydrin); reaction product: bisphenol-F-(epichlorhydrin) epoxy

resin (number average molecular weight ≤ 700); oxirane, mono[(C12-14-alkyloxy)methyl] derivs.;

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate.

Hazard statements

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.

Precautionary statements

P261 Avoid breathing vapours/spray.

P302+P352 IF ON SKIN: Wash with plenty of water with 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.





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P501

Dispose of contents/container to properly labelled waste containers according to national law.

Additional information

None.

2.3. Other hazards

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation

The components of the mixture are not identified as having endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

CAS number: 25068-38-6 EC number: 500-033-5 Index number: 603-074-00-8 Registration number: 01-2119456619-26-XXXX	reaction product: bisphenol-A-(epichlorhydrin) Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, Aquatic Chronic 2 H411 Specific concentration limits: Skin Irrit. 2 H315: C ≥ 5% Eye Irrit. 2 H319: C ≥ 5%	70% < C < 90%
CAS number: 9003-36-5 EC number: 500-006-8 Index number: — Registration number: 01-2119454392-40-XXXX	reaction product: bisphenol-F-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	10% < C < 30%
CAS number: 68609-97-2 EC number: 271-846-8 Index number: 603-103-00-4 Registration number: 01-2119485289-22-XXXX	oxirane, mono[(C12-14-alkyloxy)methyl] derivs. Skin Irrit. 2 H315, Skin Sens. 1 H317	10% < C < 30%
CAS number: 41556-26-7 EC number: 255-437-1 Index number: — Registration number: —	bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate Skin Sens. 1 H317, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	0,5% < C < 5 %

Full text of each H phrase is given in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with skin

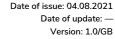
Take off contaminated clothing. Wash the exposed parts of the skin thoroughly with water and soap. Consult a doctor if disturbing symptoms appear.

Contact with eyes

Protect non-irritated eye, remove contact lenses. Rinse contaminated eyes thoroughly with water for 10 - 15 minutes. Avoid powerful water stream – risk of cornea damage. Consult a ophthalmologist if disturbing symptoms appear.

Ingestion

Consult a doctor, show the packaging or label. Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.





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After inhalation

Remove the victim to fresh air, keep warm and at rest. Consult a doctor if disturbing symptoms appear. If the victim has difficulty breathing or is in respiratory arrest, trained personnel should administer oxygen or perform CPR. Monitor the patency of the airways.

4.2. Most important symptoms and effects, both acute and delayed

Contact with skin

The product may cause redness, burning sensation, irritation, allergic reaction.

Contact with eyes

The product may cause burning sensation, irritation, tearing, blurred vision.

Ingestion

May cause gastrointestinal problems.

After inhalation

High concentration of vapours and mists may cause headaches, dizziness.

Effects of exposure

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

4.3. Indication of any immediate medical attention and special treatment needed

Exposed persons should be under medical observation for 48 hours (possibility of delayed symptoms). Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: adapt the extinguishing media to surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2. Special hazards arising from the substance or mixture

During the fire may produce harmful gases containing e.g. carbon monoxides, nitrogen oxides, other hazardous unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3. Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Cool down the containers that are endangered by fire with a water spray from a safe distance. Collect used extinguishing media.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. In case of large spills, isolate the exposed area. Immediately wipe away the spilled product - risk of slipping. Use personal protective equipment.

6.2. Environmental precautions

Do not allow the product to get into the sewage system, surface waters and soil. In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services

6.3. Methods and material for containment and cleaning up

Small leakage: collect the spilled product with incombustible absorbing materials (e.g. sand, earth, universal binding agents, silica etc.) and place it in waste containers. Treat the collected material as waste. Clean and ventilate the contaminated area.

Large leakage: isolate places where liquid accumulates; pump the collected liquid out.



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6.4. Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Provide general and / or local ventilation in the workplace in order to maintain the concentration of the harmful agent in the air below the established limit values. Use personal protective equipment. Avoid vapor formation. Before break and after work wash hands carefully. Keep the unused containers tightly closed. Do not eat, drink and smoke during the work. Avoid eyes and skin contamination.

7.2. Conditions for safe storage, including any incompatibilities

Store in properly labeled, sealed packages in a dry, cool and well-ventilated place. Container that is opened should be properly resealed and kept upright to prevent leakage. Recommended storage temperature: 5 - 25 °C. Keep away from incompatible materials (see subsection 10.5). Keep away from, foodstuffs and animal feed.

7.3. Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limit Values

The product does not contain components subject to exposure controls in the workplace.

Recommended control procedures

None.

DNEL and PNEC

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. [CAS 68609-97-2]			
F.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Exposure scheme	DNEL (workers)	
Exposure route		worker	consumer
inhalation	short-term local	_	0,98 mg/m³
inhalation	long-term systemic	4,1 mg/m³	13,8 mg/m³
skin	long-term systemic	_	3,9 mg/m³
inhalation	short-term systemic	7,6 mg/m³	29 mg/m³

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. [CAS 68609-97-2]		
PNEC	Value	
inhalation	0,00072 mg/l	
oral	80,12 mg/l	
skin	66,77 mg/kg	
intravenously	6,677 mg/kg	
intramuscularly	10 mg/l	





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8.2. Exposure controls

Industrial hygiene

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink and smoke during the work. Before break and after work wash hands carefully. Ensure adequate general and/or local ventilation at the workplace.

Individual protection measures

The necessity to use and the selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand protection

Select the material for the gloves individually at the workplace. Use protective gloves resistant to chemicals according to EN 374.

In case of a short exposure, use protective gloves with 2nd or higher level of effectiveness (breakthrough time > 30 min). In case of a long exposure, use protective gloves with 6th level of effectiveness (breakthrough time > 480 min).

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Body protection

Wear protective clothing compliant with EN ISO 13688 type 3, 4 or 6, protecting against liquid chemicals (the selection should be made taking into account the exposure to a chemical agent) -- clothing protecting against liquid chemicals in the form of jets - type 3 (EN 14605 + A1 standard) - clothing protecting against liquid chemicals in the form of spray - type 4 (standard EN 14605 + A1) - clothing protecting against liquid chemicals in the form of splashes - type 6 (standard EN 13034 + A1).

Eye protection

Use safety glasses in accordance with EN 166.

Respiratory protection

In cases where the risk assessment indicates that it is necessary, respiratory protective equipment compliant with the EN136 standard (masks) or EN 140 (half masks, quarter masks) should be used. The selection of a respirator should be based on the known or expected exposure level, product hazards, and the safety limits of the selected mask.

Thermal hazards

Not applicable.

Environmental exposure controls

Prevent direct release to drains/ surface waters. Do not contaminate surface waters and drainage ditches with chemicals or used containers. Released product or uncontrolled spills to surface waters should be reported to appropriate authorities in accordance with local and national legislations. Dispose as chemical waste, in accordance with local and national legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: characteristic
Melting point/freezing point: not determined



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Boiling point or initial boiling point and boiling

range: not determined
Flammability: produkt niepalny
Lower and upper explosion limit: not determined
Flash point: nie dotyczy

Auto-ignition temperature: produkt nie jest samozapalny

Decomposition temperature: not determined pH: not determined Kinematic viscosity: not determined

Solubility: słabo rozpuszcza się w wodzie

Partition coefficient n-octanol/water (log value): not applicable

Vapour pressure: not determined

Density and/or relative density: 1,1 g/cm³

Relative vapour density: not determined

Particle characteristics: not applicable

9.2. Other information

Other safety characteristics

Dynamic viscosity: 0,7-1,1 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is not very reactive. It does not go under hazardous polimeryzation. See also subsection 10.3-10.5.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Hazardous reactions are not known.

10.4. Conditions to avoid

Avoid sources of heat, direct sunlight. Keep away from cold.

10.5. Incompatible materials

Avoid contact with following materials: strong oxidants.

10.6. Hazardous decomposition products

Not known.

SECTION 11: Toxicological information

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

Acute toxicity

reaction product: bisphenol-A-(epichlorhydrin) [CAS 25068-38-6]	
LDso (oral, rat)	> 2000 mg/kg

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. [CAS 68609-97-2]		
LC50 (oral, rat)	> 2000 mg/kg	





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Mixture

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

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.

Information on likely routes of exposure

Exposure route: eye exposure, skin exposure, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics

See subsection 4.2 of the SDS.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data.

11.2. Information on other hazards

Endocrine disrupting properties

The components of the mixture are not assessed as endocrine disrupting substances.

Other information

No data on other hazards.

SECTION 12: Ecological information

12.1. Toxicity

reaction product: bisphenol-A-(epichlorhydrin) [CAS 25068-38-6]		
EC50 (invertebrates)	2 mg/l / 48 h Daphnia magna	method: OECD 202
EC50 (algae)	9 mg/l / 48 h Selenastrum capricornutum	method: A-660/3-75-009

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. [CAS 68609-97-2]		
LCso (fish)	1800 mg/l / 96 h Lepomis macrochirus	method: —



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EC₅₀ (daphnia)	6,07 mg/l / 48 h Daphnia magna		method: —
ICso (algae)	843,75 mg/l / 72 h —		method: —
Mixture			
Toxic to aquatic life with long lasting effects.			
Persistence and degradability			
reaction product: bisphenol-A- (epichlorhydrin) CAS 25068-38-6	Biodegradable	_	method: —
reaction product: bisphenol-F- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) CAS 9003-36-5	Biodegradable	_	method: —
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. CAS 68609-97-2	Biodegradable	87%/28 days	method: —
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate CAS 41556-26-7	Biodegradable	_	method: —
. Bioaccumulative potential			
reaction product: bisphenol-A- (epichlorhydrin) CAS 25068-38-6	log Po/w=3	_	method: metoda: OECD 117 i EU A.8
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. CAS 68609-97-2	log Po/w=3,77	BCF 160	method: —
	(daphnia) IC₅₀ (algae) Mixture Toxic to aquatic life with long lasting eff Persistence and degradability reaction product: bisphenol-A- (epichlorhydrin) CAS 25068-38-6 reaction product: bisphenol-F- (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) CAS 9003-36-5 oxirane, mono[(C12-14- alkyloxy)methyl] derivs. CAS 68609-97-2 bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate CAS 41556-26-7 Bioaccumulative potential reaction product: bisphenol-A- (epichlorhydrin) CAS 25068-38-6 oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	IC ₅₀ 843,75 mg/l / 72 h	Cso 843,75 mg/l / 72 h

12.4. Mobility in soil

The product dissolves in water and spreads in the aquatic environment. The product is mobile in soil. Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5. Results of PBT and vPvB assessment

Product does not contain components, which meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

12.6. Endocrine disrupting properties

The components of the mixture are not identified as having endocrine disrupting properties.

12.7. Other adverse effects

The mixture is not classified as hazardous to the ozone layer. Consider other harmful effects of individual components of the mixture on the environment (eg, global warming potential).





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SECTION 13: Waste treatment methods

13.1. Disposal considerations

Recommendations for the product

The waste product should be recovered or disposed of in authorized incineration plants or waste disposal / neutralization plants, in accordance with applicable regulations. Do not empty into drains.

Recommendations for used packaging

Reuse / recycle / eliminate empty containers in accordance with the local legislation. Only completely empty containers can be reused

EU legal acts: directives of the European Parliament and of the Council: 2008/98 / EC as amended and 94/62 / EC as amended

Recommended waste codes

The waste code should be assigned at the place of its formation.

SECTION 14: Transport information

14.1. UN number or ID number

UN 3082

14.2.UN proper shipping name

ADR

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. [REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)]

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. [REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)]

ICAO/IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. [REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN)]

14.3. Transport hazard class(es)

9

14.4. Packing group

Ш

14.5. Environmental hazards

ADR yes
IMDG yes
ICAO/IATA yes

14.6. Special precautions for user

Use personal protective equipment according to section 8 when handling the product. If any substances have leaked and been spilled in a vehicle or container, it may not be reused until after it has been thoroughly cleaned and,, if necessary, disinfected or decontaminated. Any other goods and articles carried in the same vehicle or container shall be examined for possible contamination.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Additional data

ADR limited quantity LQ 5 L transport category 3



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	tunnel restriction code	(-)
IMDG	limited quantity LQ	5 L
	EmS code	F-A, S-F
ICAO/IATA	packing instruction (LQ)	Y964
	limited quantity (LQ)	30 kg G
	packing instruction, passenger	964
	maximum quantity, passenger	450 L
	packing instruction, cargo	964
	maximum quantity, cargo	450 L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

ADR Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG Code International Maritime Dangerous Goods Code IATA Dangerous Goods Regulations

1907/2006/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (as amended).

1272/2008/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (as amended).

2020/878/EU COMMISSION REGULATION of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

2008/98/EC DIRECTIVE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives (as amended).

94/62/EC REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents (as amended).

The components of the mixture are not included in Annex XVII of the REACH Regulation.

The components of the mixture are not included in Annex XIV of the REACH Regulation.

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures.

SECTION 16: Other information

Full text of H phrases mentioned in section 3

ŀ	H315	Causes skin irritation.
ł	H317	May cause an allergic skin reaction.
ł	H319	Causes serious eye irritation.
ł	H400	Very toxic to aquatic life.
ł	H410	Very toxic to aquatic life with long lasting effects.
ł	H411	Toxic to aquatic life with long lasting effects.

Clarification of aberrations and acronyms

ADR Agreement concerning the International Carriage of Dangerous Goods by Road.

DIN Deutsches institut für normung



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DNEL Derived No-Effect Level.

EC10 A statistically calculated concentration of a chemical substance in an environmental medium that can

cause specific effects in 50% of the tested organisms of a given population under certain conditions.

EC50 (median effective concentration) - statistically calculated concentration of a chemical substance in an

environmental medium that can cause specific effects in 50% of the tested organisms of a given

population under certain conditions.

EN European standard

IATA The International Air Transport Association.
 IMDG International Maritime Dangerous Goods Code.
 ISO International Organization for Standardization

LC50 Concentration of a substance that is lethal to 50 percent of the organisms in a toxicity test.

LD50 Dose of a substance that is lethal to 50 percent of the organisms in a toxicity test.

NOEC The highest concentration that does not cause a statistically significant adverse effect in the exposed

population, when compared with its appropriate control.

NOEL The highest exposure level at which there are no effects observed in the exposed population, when

compared with its appropriate control.

OECD Organisation for Economic Cooperation and Development

PBT Persistent, bioaccumulative and toxic substance.

PNEC Predicted no-effect concentration.

UFI Unique Formula Identifier
VOC Volatile organic compounds

vPvB Very persistent and very bioaccumulative substance.

Aquatic Acute 1 Hazardous to the aquatic environment - Acute - category 1

Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic - category 1

Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic - category 2

Eye Irrit. 2 Eye irritation - category 2
Skin Irrit. 2 Skin irritation - category 2
Skin Sens. 1 Skin sensitization - category 1

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training.

Key literature references and sources of data

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (eg. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

Procedures used for the mixture classification according with Regulation 1272/2008/EC as amended

Skin Irrit. 2 H315 calculation method
Skin Sens. 1 H317 calculation method
Eye Irrit. 2 H319 calculation method
Aquatic Chronic 2 H411 calculation method

Additional information

Changes: -

SDS issued by: THETA Consulting Sp. z o.o.