

SAFETY DATA SHEET

In accordance to REACH Regulation (EC) 1907/2006 as amended by (EU) 2020/878.
Version: 1.0 ENGLISH Issue date: 20/6/2022 Revision date: - Supersedes version: -

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

1.1. Product identifier

Product form: Mixture
Product name: PRO-FILL 101 Comp. A

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

1.2.1. Relevant identified uses

Industrial/Professional use spec: Industrial - For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NAVIC

27B1, Polidefkous St.
185 45 Piraeus
Greece.

Tel: +30 210 4225 145
www.navic-chemicals.com

1.4. Emergency telephone number

Emergency number: +30 210 7793 777 - (National Poison Helpline)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2:	H315
Serious eye damage/eye irritation, Category 2:	H319
Skin sensitisation, Category 1:	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):



GHS07

GHS09

Signal word (CLP): Warning

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Contains:	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol, oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Hazard statements (CLP):	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 (CLP):	P280 - Wear protective gloves, face protection, eye protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P273 - Avoid release to the environment. P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements:	EUH205 - Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1%.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	CAS-No.: 1675-54-3 EC-No.: 216-823-5 EC Index-No.: 603-073-00-2 REACH-no: 01-2119456619-26	50 – 55	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Formaldehyde, oligomeric reaction products with 1chloro-2,3-epoxypropane and phenol	CAS-No.: 9003-36-5 REACH-no: 01-2119454392-40	10 – 11	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	CAS-No.: 68609-97-2 EC-No.: 271-846-8 EC Index-No.: 603-103-00-4 REACH-no: 01-2119485289-22	3 – 3.5	Skin Irrit. 2, H315 Skin Sens. 1, H317



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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
2,2'-[[1-methylethylidene]bis(4,1-phenyleneoxymethylene)]bisoxirane	CAS-No.: 1675-54-3 EC-No.: 216-823-5 EC Index-No.: 603-073-00-2 REACH-no: 01-2119456619-26	(5 ≤C ≤ 100) Skin Irrit. 2, H315 (5 ≤C ≤ 100) Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	Allow affected person to breathe fresh air. Allow the victim to rest
First-aid measures after skin contact:	Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation:	May cause an allergic skin reaction.
Symptoms/effects after skin contact:	Causes skin irritation.
Symptoms/effects after eye contact:	Causes serious eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.



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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures: Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original container in a cool, well ventilated place away from excessive heat and humidity. Keep container closed when not in use.

Incompatible products: Strong bases. Strong acids.

Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available



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8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

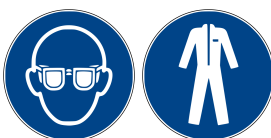
No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Personal protective equipment symbol(s):

Avoid all unnecessary exposure.



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Grey.
Odour	characteristic.
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Non flammable.
Explosive properties	Not applicable, product is not explosive.
Oxidising properties	Not applicable, product is not oxidising.
Explosive limits	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	> 150 °C
Auto-ignition temperature	Not available

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Decomposition temperature	Not available
pH	Not applicable
Viscosity, kinematic	> 20.5 mm ² /s
Solubility	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50 °C	Not available
Density	Not available
Relative density	Not available
Relative vapour density at 20 °C	Not available
Particle characteristics	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content: 0 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

Acute toxicity (oral):	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal):	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation):	Not classified (Based on available data, the classification criteria are not met)

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

LD50 oral rat	15000 mg/kg bodyweight
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LD50 dermal rabbit	23000 mg/kg bodyweight
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oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
LD50 oral	26800 mg/kg bodyweight
LD50 dermal	4000 mg/kg bodyweight

Skin corrosion/irritation:	Causes skin irritation. pH: Not applicable.
Serious eye damage/irritation:	Causes serious eye irritation. pH: Not applicable.
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified
Additional information:	Based on available data, the classification criteria are not met
Carcinogenicity:	Not classified
Additional information:	Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified
Additional information:	Based on available data, the classification criteria are not met
STOT-single exposure:	Not classified
Additional information:	Based on available data, the classification criteria are not met
STOT-repeated exposure:	Not classified
Additional information:	Based on available data, the classification criteria are not met

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight/day
NOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day

Aspiration hazard:	Not classified
Additional information:	Based on available data, the classification criteria are not met

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Viscosity, kinematic	> 20.5 mm ² /s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water:	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute):	Not classified.



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Hazardous to the aquatic environment, long-term (chronic):

Toxic to aquatic life with long lasting effects.

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
LC50 - Fish [1]	2 mg/l LC50 96 h - fish [mg/l]
EC50 72h - Algae [1]	11 mg/l
NOEC chronic algae	4.2 mg/l

oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (68609-97-2)	
LC50 - Fish [1]	100 mg/l LC50 96 h - fish [mg/l]
EC50 - Crustacea [1]	7.2 mg/l
EC50 72h - Algae [1]	844 mg/l

12.2. Persistence and degradability

PRO-FILL 101 Comp. A	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

PRO-FILL 101 Comp. A	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials: Avoid release to the environment.

European List of Waste (LoW) code: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances.

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SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR): UN 3082
UN-No. (IMDG): UN 3082
UN-No. (IATA): UN 3082
UN-No. (ADN): UN 3082
UN-No. (RID): UN 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (IATA)	Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (ADR)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ADR - Special Provision 375: "These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 litres or less for liquids or having a net mass per single or inner packaging of 5kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8."), 9, III, (-)
Transport document description (IMDG)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((IMDG - Exemption 2.10.2.7 - Marine Pollutants packaged in single or combination packagings containing a net quantity per single of inner packaging of 5lt or less for liquids or having a net mass per single of inner packaging of 5kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general requirements of 4.1.1.1, 4.1.1.2, and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria of inclusion in another hazards class all provisions of the Code relevant to any additional hazards continue to apply.)), 9, III, MARINE POLLUTANT
Transport document description (IATA)	UN 3082 Environmentally hazardous substance, liquid, n.o.s. ((IATA - Special Provision A197: 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 instructions provided the packagings general provisions of 4;1.1.1, 4;1.1.3.1 and 4;1.1.5 of the ICAO-TI (IATA DGR: 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8)), 9, III
Transport document description (ADN)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Transport document description (RID)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR): 9
Danger labels (ADR): 9



IMDG

Transport hazard class(es) (IMDG): 9
Danger labels (IMDG): 9



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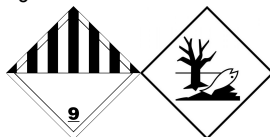
IATA

Transport hazard class(es) (IATA): 9
Danger labels (IATA): 9



ADN

Transport hazard class(es) (ADN): 9
Danger labels (ADN): 9



RID

Transport hazard class(es) (RID): 9
Danger labels (RID): 9



14.4. Packing group

Packing group (ADR): III
Packing group (IMDG): III
Packing group (IATA): III
Packing group (ADN): III
Packing group (RID): III

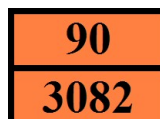
14.5. Environmental hazards

Dangerous for the environment: Yes
Marine pollutant: Yes
Other information: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) M6
Special provisions (ADR) 274, 335, 375, 601
Limited quantities (ADR) 5I
Excepted quantities (ADR) E1
Packing instructions (ADR) P001, IBC03, LP01, R001
Special packing provisions (ADR) PP1
Mixed packing provisions (ADR) MP19
Transport category (ADR) 3
Special provisions for carriage - Packages (ADR) V12
Special provisions for carriage - Loading, unloading and handling (ADR) CV13
Orange plates



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Tunnel restriction code (ADR) -
EAC code •3Z

Transport by sea

Special provisions (IMDG) 274, 335, 969
Limited quantities (IMDG) 5 L
Excepted quantities (IMDG) E1
Packing instructions (IMDG) LP01, P001
Special packing provisions (IMDG) PP1
IBC packing instructions (IMDG) IBC03
EmS-No. (Fire) F-A
EmS-No. (Spillage) S-F
Stowage category (IMDG) A
Flash point (IMDG)

Properties and observations (IMDG)

Air transport

PCA Excepted quantities (IATA) E1
PCA Limited quantities (IATA) Y964
PCA limited quantity max net quantity (IATA) 30kgG
PCA packing instructions (IATA) 964
PCA max net quantity (IATA) 450L
CAO packing instructions (IATA) 964
CAO max net quantity (IATA) 450L
Special provisions (IATA) A97, A158, A197, A215
ERG code (IATA) 9L

Inland waterway transport

Classification code (ADN) M6
Special provisions (ADN) 274, 335, 375, 601
Limited quantities (ADN) 5 L
Excepted quantities (ADN) E1
Carriage permitted (ADN) T
Equipment required (ADN) PP
Number of blue cones/lights (ADN) 0
Additional requirements/Remarks (ADN)

Rail transport

Classification code (RID) M6
Special provisions (RID) 274, 335, 375, 601
Limited quantities (RID) 5L
Excepted quantities (RID) E1
Packing instructions (RID) P001, IBC03, LP01, R001



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Special packing provisions (RID)	PP1
Mixed packing provisions (RID)	MP19
Portable tank and bulk container instructions (RID)	T4
Tank codes for RID tanks (RID)	LGBV
Transport category (RID)	3
Special provisions for carriage – Packages (RID)	W12
Special provisions for carriage - Loading, unloading and handling (RID)	CW13, CW31
Colis express (express parcels) (RID)	CE8
Hazard identification number (RID)	90

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

VOC Directive (2004/42)

VOC content: 0 g/l

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Employment restrictions: Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK): WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance (12. BImSchV): Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen: oxirane, mono[(C12-14-alkyloxy)methyl] derivs. is listed

SZW-lijst van mutagene stoffen: oxirane, mono[(C12-14-alkyloxy)methyl] derivs. is listed

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SZW-lijst van reprotoxische stoffen – Borstvoeding: None of the components are listed

SZW-lijst van reprotoxische stoffen –
Vruchtbaarheid: None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling: None of the components are listed

Denmark

Danish National Regulations: Young people below the age of 18 years are not allowed to use the product
People who have eczema or allergy to epoxy, may not work with the material
The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

Switzerland

Storage class (LK): LK 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Data sources: REGULATION (EC) No 1272/2008 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.

Other information: None.

Full text of H- and EUH- statements:	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH205	Contains epoxy constituents. May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not, therefore, be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage caused to the buyer, applicator or any third party as a result of using our product. Such buyers, applicators and end users assume all risks associated with the use of our product.