

Safety Data Sheet

according to Regulation (EC) No 1907/2006

EH 2 A

Revision date: 13.11.2020

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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

Primer and mortar resin

Uses advised against

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name:	PAGEL Spezial-Beton GmbH & Co. KG	
Street:	Wolfsbankring 9	
Place:	D-45355 Essen	
Telephone:	+49 (0) 201/68504-0	Telefax: +49 (0) 201/68504-31
Internet:	http://www.pagel.com	
Responsible Department:	Abteilung Labor schempershofe@pagel.de, labor@pagel.de	

1.4. Emergency telephone number:

+49 (0) 6131-19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

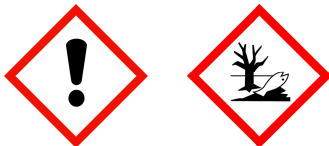
2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Bisphenol F-epoxy resin

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

Signal word: Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P337+P313 If eye irritation persists: Get medical advice/attention.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.
 EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
 Restricted to professional users.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

Chemical characterization
 formulated epoxy resin.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			50 - < 55 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
9003-36-5	Bisphenol F-epoxy resin			15 - < 20 %
	500-006-8		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			10 - < 15 %
	271-846-8	603-103-00-4	01-2119485289-22	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)			1 - < 5 %
	618-939-5		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxy)phenyl]propane	50 - < 55 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = >5000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
9003-36-5	500-006-8	Bisphenol F-epoxy resin	15 - < 20 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
68609-97-2	271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	10 - < 15 %
		oral: LD50 = >10000 mg/kg	
933999-84-9	618-939-5	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	1 - < 5 %
		oral: LD50 = 2189 mg/kg	

Further Information

No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO₂). Foam. Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

Hints on joint storage

For more information about together and separate storage: refer to TRGS 510

Further information on storage conditions

Recommended storage temperature: 10 - 30 °C
Keep/Store only in original container.
Store in a dry place.

7.3. Specific end use(s)

Further remarks:
Information System of the Professional Association of construction industry see on www.gisbau.de

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
Worker DNEL, long-term	inhalation	systemic	12,25 mg/m ³	
Worker DNEL, acute	inhalation	systemic	12,25 mg/m ³	
Worker DNEL, long-term	dermal	systemic	8,33 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	8,33 mg/kg bw/day	
9003-36-5	Bisphenol F-epoxy resin			
Worker DNEL, long-term	dermal	systemic	104,15 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	29,39 mg/m ³	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Worker DNEL, long-term	dermal	systemic	1,0 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	3,6 mg/m ³	
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)			
Worker DNEL, long-term	inhalation	systemic	10,57 mg/m ³	
Worker DNEL, acute	inhalation	systemic	10,57 mg/m ³	
Worker DNEL, acute	inhalation	local	0,44 mg/m ³	
Worker DNEL, long-term	dermal	local	0,0226 mg/cm ²	
Worker DNEL, acute	dermal	local	0,0226 mg/cm ²	
Worker DNEL, long-term	dermal	systemic	6 mg/kg bw/day	

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PNEC values

CAS No	Substance	Value
Environmental compartment		
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	
Freshwater		0,006 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,341 mg/kg
Marine sediment		0,034 mg/kg
Soil		0,065 mg/kg
9003-36-5	Bisphenol F-epoxy resin	
Freshwater		0,003 mg/l
Marine water		0,000 mg/l
Freshwater sediment		0,294 mg/kg
Marine sediment		0,029 mg/kg
Soil		0,237 mg/kg
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	
Freshwater		0,106 mg/l
Marine water		0,01 mg/l
Freshwater sediment		307,16 mg/kg
Marine sediment		30,72 mg/kg
Soil		1,234 mg/kg
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	
Freshwater		0,011 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,283 mg/kg
Marine sediment		0,028 mg/kg
Soil		0,223 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommendation to EN 374: For short time use or protection against splashes: Butyl rubber / nitrile rubber (0.4 mm), contaminated gloves should be changed and disposed. Suitable for permanent exposure: Viton gloves (0.4 mm) Break through time > 30 min.

Skin protection

Wear suitable protective clothing. Recommendation: Safety shoes according to EN ISO 20345, long pants and

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long-sleeved work shirt; with mixing and stirring work additional rubber apron and protective boots according to EN 14605

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	pigmented
Odour:	slightly.

Test method

pH-Value:	No information available.
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Changes in the physical state

Flash point:	> 93 °C calculated.
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Explosive properties

No information available.

Auto-ignition temperature:	No information available.
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Decomposition temperature:	No information available.
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Oxidizing properties

No information available.

Vapour pressure:	No information available.
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Density (at 23 °C):	ca. 1,2 g/cm ³ ISO 2811-2
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Water solubility:	No information available.
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Solubility in other solvents

No information available.

Partition coefficient n-octanol/water:	No information available.
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Viscosity / dynamic: (at 25 °C)	455 - 685 mPa·s ISO 2884-1
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Relative vapour density:	No information available.
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Evaporation rate:	No information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		
9003-36-5	Bisphenol F-epoxy resin				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
	oral	LD50 >10000 mg/kg	Rat		
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)				
	oral	LD50 2189 mg/kg	Rat (OECD 401)	ECHA Dossier	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxy)phenyl]propane; Bisphenol F-epoxy resin; oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2))

Carcinogenic/mutagenic/toxic effects for reproduction

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.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	Acute fish toxicity	LC50	1,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout) (OECD 203)	ECHA Dossier
9003-36-5	Bisphenol F-epoxy resin					
	Acute fish toxicity	LC50	2,54 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	1,8 mg/l	72 h	algae.	
	Acute crustacea toxicity	EC50	2,55 mg/l	48 h	Daphnia magna (Big water flea)	
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)					
	Acute fish toxicity	LC50	30 mg/l	96 h	Leuciscus idus (Goldorfe)	ECHA Dossier
	Acute crustacea toxicity	EC50	47 mg/l	48 h	Daphnia magna (big water flea)	ECHA Dossier

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	5 %	28	ECHA Dossier	
	Not easily bio-degradable (according to OECD-criteria).				
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
	OECD 301 F	87%	28		
	Readily biodegradable (according to OECD criteria).				
933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)				
	OECD 301D/ EEC 92/69/V, C.4-E	47 %	28	ECHA Dossier	
	Not easily bio-degradable (according to OECD-criteria).				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	3,8
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	>3

BCF

CAS No	Chemical name	BCF	Species	Source
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	100-3000		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

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SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

Marine transport (IMDG)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9
Marine pollutant:	Yes
Special Provisions:	274, 335, 969
Limited quantity:	5 L

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Excepted quantity: E1
 EmS: F-A, S-F

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes
 Danger releasing substance: epoxy resin

14.6. Special precautions for user

No information available.

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

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 3

2004/42/EC (VOC): VOC content (g/L), delivery state: < 500
 Subcategory according to Directive 2004/42/EC: Two-pack reactive performance coatings for specific end use such as floors - Solvent-borne coatings, VOC limit value: 500 g/l
 Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

Additional information

Prohibition/Restriction:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV): not applicable

REACH Information: All substances contained in our Products are preregistered or registered by our upstream suppliers, and/or preregistered or registered by us, and/or excluded from the regulation, and/or exempted from the registration.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Bisphenol F-epoxy resin

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

SECTION 16: Other information**Changes**

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This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

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.
H412	Harmful to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)