

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 16 Feb 2024

Print date: 7 May 2024

Version: 1

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hahne HADALAN EG145 13E component A

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

1.1. Product identifier

Trade name/designation:

hahne HADALAN EG145 13E component A

UFI:

GD81-8NWN-5A1R-0MMY

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

Use of the substance/mixture:

Fast-hardening, 2-component. Epoxy resin for priming mineral substrates where there is a risk of moisture penetration on the back

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Sievert Baustoffe SE & Co. KG

Mühlenschweg 6

49090 Osnabrück

Germany

Telephone: +49 541 601-01

Telefax: +49 541 601-853

E-mail: info@sievert.de

Website: https://sievert.de

E-mail (competent person): info@sievert.de

1.4. Emergency telephone number

Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen, 24h: +49 (0)551 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS09

Environment

Signal word: Warning

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Hazard components for labelling:

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Alkylglycidylether;
Reaktionsmasse von 2,2'-[Methylenbis(4,1-phenyleneoxymethylen)]dioxiran und 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxiran und 2,2'- [Methylenbis(2,1-phenyleneoxymethylen)]dioxiran; [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

Hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing and eye protection/face protection.

Precautionary statements Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

P360 Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.





2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 1675-54-3 EC No.: 216-823-5 Index No.: 603-073-00-2 REACH No.: 01-2119456619-26	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1B (H317)  Warning Specific concentration limit (SCL) Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5%	43 - < 80 weight-%
CAS No.: 68609-97-2 EC No.: 271-846-8 Index No.: 603-103-00-4 REACH No.: 01-2119485289-22	Alkylglycidylether Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning	11 - < 22 weight-%
EC No.: 701-263-0 REACH No.: 01-2119454392-40	Reaktionsmasse von 2,2'-[Methylenbis(4,1-phenyleneoxymethylen)]dioxiran und 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxiran und 2,2'-[Methylenbis(2,1-phenyleneoxymethylen)]dioxiran Aquatic Chronic 2 (H411), Skin Irrit. 2 (H315), Skin Sens. 1A (H317)  Warning	11 - < 20 weight-%
CAS No.: 2530-83-8 EC No.: 219-784-2	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Aquatic Chronic 3 (H412), Eye Dam. 1 (H318)  Danger	1 - < 2.82 weight-%

Full text of H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

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.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Allergic reactions Serious eye damage/eye irritation

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:

Water spray jet, Extinguishing powder, Carbon dioxide (CO₂), Foam. alcohol resistant foam

5.2. Special hazards arising from the substance or mixture

Combustible. In the event of a fire, the containers can burst due to gas evolution.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

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

5.4. Additional information

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

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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6.3. Methods and material for containment and cleaning up

For containment:

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

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

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Industrial sector specific solutions:

Epoxide resin products, sensitizing, totally solid

GISCODE:

RE30

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.75 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	3.6 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.75 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	3 µg/L	① PNEC aquatic, freshwater
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.3 µg/L	① PNEC aquatic, marine water
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	10 mg/L	① PNEC sewage treatment plant
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.5 mg/kg bw/day	① PNEC sediment, freshwater
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.5 mg/kg bw/day	① PNEC sediment, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166

Skin protection:

Tested protective gloves must be worn, EN ISO 374. Suitable material: Butyl caoutchouc (butyl rubber), EVAL (Ethyl vinyl alcohol laminate), NBR (Nitrile rubber) PVC (polyvinyl chloride). In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Respiratory protection necessary at: exceeding exposure limit values. Usually no personal respiratory protection necessary.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: colourless

Odour: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	6 – 8	20 °C	
Melting point	No data available		

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Parameter	Value	at °C	① Method ② Remark
Freezing point	No data available		
Initial boiling point and boiling range	No data available		
Flash point	No data available		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	No data available		
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Combustible

10.2. Chemical stability

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Gases/vapours, toxic

SECTION 11: Toxicological information

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5
LD₅₀ oral: >15,000 mg/kg (Rat)
LD₅₀ dermal: 23,000 mg/kg (Kaninchen)
Alkylglycidylether CAS No.: 68609-97-2 EC No.: 271-846-8
LD₅₀ oral: 26,000 mg/kg (Ratte)
Reaktionsmasse von 2,2'-[Methylenbis(4,1-phenyleneoxymethylen)]dioxiran und 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxiran und 2,2'-[Methylenbis(2,1-phenyleneoxymethylen)]dioxiran EC No.: 701-263-0
LD₅₀ oral: >2,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: >2,000 mg/kg (Rat) OECD 402
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2
LD₅₀ oral: 7,010 mg/kg (rat)
LC₅₀ Acute inhalation toxicity (dust/mist): >5.3 mg/L 4 h (rat) OECD Guideline 403 (Acute Inhalation Toxicity)

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Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

LC₅₀: 2 mg/L 4 d (fish, *Oncorhynchus mykiss*)

LC₅₀: 2 mg/L 4 d (fish, *Oncorhynchus mykiss* (Rainbow trout))

LC₅₀: 1.3 mg/L 4 d (fish)

EC₅₀: 1.8 mg/L 2 d (crustaceans, *Daphnia magna*)

EC₅₀: 1.8 mg/L 2 d (crustaceans, *Daphnia magna* (Big water flea))

EC₅₀: 2.1 mg/L 2 d (crustaceans)

NOEC: 0.3 mg/L 21 d (crustaceans, *Daphnia magna*)

NOEC: 0.3 mg/L 21 d (Algae/water plant, *Daphnia Magna*)

ErC₅₀: 11 mg/L 3 d (Algae/water plant, *Selenastrum capricornutum*)

ErC₅₀: 11 mg/L 3 d (Algae/water plant, *Scenedesmus capricornutum*)

Alkylglycidylether CAS No.: 68609-97-2 EC No.: 271-846-8

LC₅₀: >5,000 mg/L 4 d (fish, *Oncorhynchus mykiss* (Regenbogenforelle))

EC₅₀: 843 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (Grünalge))

NOEC: 500 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (Grünalge))

LC₅₀: 1,800 mg/L 4 d (fish, *Lepomis macrochirus*)

NOEC: >100 mg/L 4 d (fish, *Oncorhynchus mykiss*)

IC₅₀: 843.75 mg/L 3 d (Algae/water plant, *Selenastrum capricornutum* *Pseudokirchneriella subcapitata*)

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EC No.: 701-263-0

LC₅₀: 2.54 mg/L 4 d (fish)

EC₅₀: >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 202

EC₅₀: >1.8 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) OECD 201

NOEC: 0.3 mg/L 21 d (crustaceans, Daphnia magna)

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2

LC₅₀: 55 mg/L 4 d (fish, Cyprinus carpio) EU Method C.1 (Acute Toxicity for Fish)

LC₅₀: 324 mg/L 2 d (crustaceans, Simocephalus vetulus)

EC₅₀: 250 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))

NOEC: 130 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))

NOEC: <250 mg/L 2 d (crustaceans, Simocephalus vetulus)

NOEC: ≥100 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

LOEC: >100 mg/L 21 d (crustaceans, Daphnia magna) OECD Guideline 211 (Daphnia magna Reproduction Test)

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

Biodegradation: Poorly biodegradable.

Alkylglycidylether CAS No.: 68609-97-2 EC No.: 271-846-8

Biodegradation: Yes, rapidly

Reaktionsmasse von 2,2'-[Methylenbis(4,1-phenylenoxymethylen)]dioxiran und 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxiran und 2,2'-[Methylenbis(2,1-phenylenoxymethylen)]dioxiran
EC No.: 701-263-0

Biodegradation: Poorly biodegradable.

12.3. Bioaccumulative potential

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

Log K_{OW}: 3,242

Alkylglycidylether CAS No.: 68609-97-2 EC No.: 271-846-8

Log K_{OW}: 3.77

Bioconcentration factor (BCF): 263

Reaktionsmasse von 2,2'-[Methylenbis(4,1-phenylenoxymethylen)]dioxiran und 2-(2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxiran und 2,2'-[Methylenbis(2,1-phenylenoxymethylen)]dioxiran
EC No.: 701-263-0

Log K_{OW}: 3.6

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2

Log K_{OW}: 2.6

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

Results of PBT and vPvB assessment: —

Alkylglycidylether CAS No.: 68609-97-2 EC No.: 271-846-8

Results of PBT and vPvB assessment: —

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Reaktionsmasse von 2,2'-[Methylenbis(4,1-phenylenoxymethylen)]dioxiran und 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxiran und 2,2'- [Methylenbis(2,1-phenylenoxymethylen)]dioxiran
EC No.: 701-263-0

Results of PBT and vPvB assessment: —

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 01 11 * Waste paint and varnish containing organic solvents or other dangerous substances


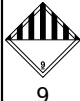
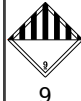
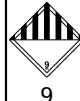




*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3. Transport hazard class(es)			
 9	 9	 9	 9
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 274 335 375 601 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 90	Special Provisions: 274 335 375 601 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Classification code: M6	Special Provisions: 274 335 969 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 EmS-No.: F-A, S-F	Special Provisions: A97 A158 A197 A215 Limited quantity (LQ): Y964 Excepted Quantities (EQ): E1

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Classification code: M6			
Tunnel restriction code: (-)			

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Hazard categories:

- E2 Hazardous to the Aquatic Environment in Category Chronic 2

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImSchV)

for substances contained in the product:

Hazard categories:

- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Water hazard class

WGK:

2 - obviously hazardous to water

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

Substance name	Type	source of supply
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS No.: 2530-83-8 EC No.: 219-784-2	Classification of the substance or mixture; LD ₅₀ oral; LC ₅₀ Acute inhalation toxicity (dust/mist); LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available