MINPUR EP-W 15 Top Mattsiegel Komponente B

Safety Data Sheet

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

Date of issue: 6/14/2018 Revision date: 6/14/2018 Supersedes: 4/24/2017 Version: 3.00

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

1.1. Product identifier

Trade name : MINPUR EP-W 15 Top Mattsiegel Komponente B

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Sealing
Coating
Epoxy resin

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier
SYNFOLA GmbH
Seestrasse 24 C
8806 Bäch SZ - Schweiz
T +41 (0)55 283 36 90 - F +41 (0)55 283 36 91

Email competent person
sds@kft.de

1.4. Emergency telephone number

Emergency number : National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

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 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS05 GHS07 GHS09

Signal word (CLP) : Danger

Hazardous ingredients : m-phenylenebis(methylamine); 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine; 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing vapours, mist.
P280 - Wear eye protection, protective clothing, eye protection, face protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P391 - Collect spillage.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P310 - Immediately call a doctor, a POISON CENTER.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Mixture of the substances listed below with non-hazardous additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aliphatic Poliamine		25 - 50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine	(CAS-No.) 90530-15-7 (EC-No.) 292-053-3	5 - 10	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317
m-phenylenebis(methylamine)	(CAS-No.) 1477-55-0 (EC-No.) 216-032-5	1 - 2.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
3-aminomethyl-3,5,5-trimethylcyclohexylamine	(CAS-No.) 2855-13-2 (EC-No.) 220-666-8 (EC Index-No.) 612-067-00-9	1 - 2.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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. Dry powder. Foam. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours, mist.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information : Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours, mist. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Storage temperature : < 60 °C

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs. Store away from Isocyanates, acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

m-phenylenebis(methylamine) (1477-55-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.2 mg/m³
Long-term - local effects, inhalation	0.2 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.094 mg/l
PNEC aqua (marine water)	0.009 mg/l
PNEC aqua (intermittent, freshwater)	0.152 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.43 mg/kg dwt
PNEC sediment (marine water)	0.043 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.045 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine (90530-15-7)	
PNEC (Water)	
PNEC aqua (freshwater)	0.00992 mg/l

PNEC aqua (marine water)	0.00099 mg/l
PNEC aqua (intermittent, freshwater)	0.992 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	96.97 mg/kg dwt
PNEC sediment (marine water)	9.68 mg/kg dwt
PNEC (Soil)	
PNEC soil	19.33 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	4.65 mg/l

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.073 mg/m³
Long-term - local effects, inhalation	0.073 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	0.526 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.06
PNEC aqua (marine water)	0.006
PNEC aqua (intermittent, freshwater)	0.23
PNEC aqua (intermittent, marine water)	0.23 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	5.784 mg/kg dwt
PNEC sediment (marine water)	0.578 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.121 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	3.18 mg/l

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Chemically resistant protective gloves. EN 374. Nitrile rubber gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Eye protection:

Wear closed safety glasses. EN 166. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. EN 143. Filter A (colour code: brown)

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Viscous.
Colour	:	yellowish.
Odour	:	Amine-like.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	100 - 200 °C
Flash point	:	> 100 °C (DIN EN ISO 2719)
Auto-ignition temperature	:	> 450 °C
Decomposition temperature	:	170 °C
Flammability (solid, gas)	:	Not applicable

Vapour pressure	: < 25 hPa (20 °C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 1.1 g/cm³ (20 °C, DIN EN ISO 2811-2)
Solubility	: Soluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 10000 - 17000 mPa.s (DIN EN ISO 3219)
Explosive properties	: Not explosive.
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

VOC content	: < 0.5 %
Other properties	: Solvent content: Water: ~20 %.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

heat.

10.5. Incompatible materials

Isocyanates. Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On exposure to high temperature, may decompose, releasing corrosive gases. Acrylonitrile.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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)

MINPUR EP-W 15 Top Mattsiegel Komponente B	
LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5 mg/l/4h

m-phenylenebis(methylamine) (1477-55-0)	
LD50 dermal rat	> 3100 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1.16 mg/l/4h (OECD 403 method)

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
LD50 oral rat	1030 mg/kg bodyweight (male; eq. (OECD 401 method))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.01 mg/l/4h (OECD 403 method)

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

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

MINPUR EP-W 15 Top Mattsiegel Komponente B	
LC50 fish 1	0.5 - 1 mg/l (Brachydanio rerio, (OECD 201 method))
EC50 Daphnia 1	1.5 mg/l (Daphnia magna, (OECD 202 method))

m-phenylenebis(methylamine) (1477-55-0)	
LC50 fish 1	87.6 mg/l (96 h; Oryzias latipes; (OECD 203 method))
EC50 Daphnia 1	15.2 mg/l (48 h; Daphnia magna; (OECD 202 method))
EC50 72h algae (1)	20.3 mg/l (Pseudokirchneriella subcapitata; (OECD 201 method))

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
LC50 fish 1	110 mg/l (96h; Leuciscus idus (golden orfe); EU Method C.1)
EC50 Daphnia 1	23 mg/l (48h; Daphnia magna; (OECD 202 method))
EC50 72h algae (1)	37 mg/l (72h; Desmodesmus subspicatus; EU Method C.3)
ErC50 (algae)	37 mg/l (72h; Desmodesmus subspicatus; EU Method C.3)
NOEC chronic crustacea	3 mg/l (21d; Daphnia magna)

12.2. Persistence and degradability

MINPUR EP-W 15 Top Mattsiegel Komponente B	
Persistence and degradability	Not readily biodegradable.
Biodegradation	0 % (28 d, (OECD 301D method), (OECD 301F method))

m-phenylenebis(methylamine) (1477-55-0)	
Biodegradation	28 % (28d)

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine (90530-15-7)	
Persistence and degradability	Not readily biodegradable.

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	8 % (28d; EU Method C.4-A)

12.3. Bioaccumulative potential

MINPUR EP-W 15 Top Mattsiegel Komponente B	
BCF fish 1	100 - 3000

m-phenylenebis(methylamine) (1477-55-0)	
Log Pow	≈ 0.18 (OECD 107 method)

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine (90530-15-7)	
Log Pow	0.9 - 1.34 (25 °C)

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
Log Pow	0.99 (OECD 107 method)

12.4. Mobility in soil

2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine (90530-15-7)	
Surface tension	57.2 mN/m (20 °C)
Log Koc	4.99 - 5.63

12.5. Results of PBT and vPvB assessment

Component	
m-phenylenebis(methylamine) (1477-55-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine (90530-15-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

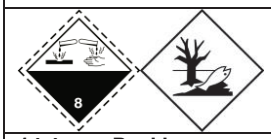
13.1. Waste treatment methods

Waste treatment methods : Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

European List of Waste (LoW) code	:	20 01 27* - paint, inks, adhesives and resins containing dangerous substances
HP Code	:	HP8 - “Corrosive:” waste which on application can cause skin corrosion. HP4 - “Irritant — skin irritation and eye damage:” waste which on application can cause skin irritation or damage to the eye. HP14 - “Ecotoxic:” waste which presents or may present immediate or delayed risks for one or more sectors of the environment HP13 - “Sensitising:” waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

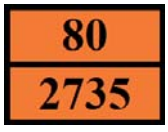
SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
2735	2735	2735	2735	2735
14.2. UN proper shipping name				
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine))	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
Transport document description				
UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 2735 Polyamines, liquid, corrosive, n.o.s. (m-phenylenebis(methylamine)), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, II, ENVIRONMENTALLY HAZARDOUS	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	:	C7
Special provisions (ADR)	:	274
Limited quantities (ADR)	:	1l
Excepted quantities (ADR)	:	E2
Transport category (ADR)	:	2
Hazard identification number (Kemler No.)	:	80
Orange plates	:	
Tunnel restriction code (ADR)	:	E
EAC code	:	2X
APP code	:	B

- Transport by sea

Special provisions (IMDG)	:	274
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B

Segregation (IMDG)	: SG35

- Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803

- Inland waterway transport

Classification code (ADN)	: C7
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T

- Rail transport

Classification code (RID)	: C7
Special provisions (RID)	: 274
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Transport category (RID)	: 2
Hazard identification number (RID)	: 80

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	3-aminomethyl-3,5,5-trimethylcyclohexylamine
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	MINPUR EP-W 15 Top Mattsiegel Komponente B - m-phenylenebis(methylamine) - 2-Propenenitrile, reaction products with 3-amino-1,5,5-trimethylcyclohexanemethanamine - 3-aminomethyl-3,5,5-trimethylcyclohexylamine
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	MINPUR EP-W 15 Top Mattsiegel Komponente B - m-phenylenebis(methylamine) - Aliphatic Poliamine - 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content	: < 0.5 %
Other information, restriction and prohibition regulations	: Take note of Directive 94/33/EC on the protection of young people at work.
Directive 2012/18/EU (SEVESO III)	: E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:
General revision.

Section	Changed item	Change	Comments
1.1	Product name - Trade name	Modified	
2.1	Chemical name	Modified	
2.2	Labelling	Modified	
3.2	Chemical name	Modified	
12.1	Acute aquatic toxicity	Modified	
12.1	Acute aquatic toxicity	Removed	
14.1	Other means of identification	Modified	

Abbreviations and acronyms:

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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency). Information provided by the manufacturer.

Department issuing data specification sheet : KFT Chemieservice GmbH
Im Leuschnerpark. 3 64347 Griesheim
Postfach 1451 64345 Griesheim
Germany

Phone: +49 6155-8981-400 Fax: +49 6155 8981-500
Safety Data Sheet Service: +49 6155 8981-522

Contact person : Tobias Eger

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method

Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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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