

FIS EM PLUS 300 T/390 S/585 S/1500 S

Kit Safety Information Sheet (SIS)

SECTION 1: Kit identification

1.1 Kit identifier

Trade name : FIS EM PLUS 300 T/390 S/585 S/1500 S

Article number : 00544172

1.2 Details of the supplier of the Kit safety information sheet

fischerwerke GmbH & Co. KG
Klaus-Fischer-Straße 1
72178 Waldachtal - Germany
T +49(0)7443 12-0 - F +49(0)7443 12-4222
info-sdb@fischer.de - www.fischer.de

SECTION 2: General information

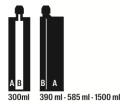
Storage : 5 - 25°C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page This product is a Kit which consists of several independently packaged components

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Name	Classification according to Regulation (EC) No. 1272/2008 [CLP]
FIS EM PLUS 300 T/390 S/585 S/1500 S Component A (Mortar)	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360F STOT SE 3, H335 Aquatic Chronic 2, H411
FIS EM PLUS 300 T/390 S/585 S/1500 S Component B (Hardener)	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412



13/01/2025 GB - en 1/23



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 07/11/2022 Revision date: 08/10/2024 Supersedes version of: 09/08/2024 Version: 1.2

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

1.1. Product identifier

Product form : Mixture

Trade name : FIS EM PLUS 300 T/390 S/585 S/1500 S Component A (Mortar)

UFI : EH20-U0SK-X00Y-08A7

Article number M141

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

Relevant identified uses

: Industrial use, Professional use Main use category

Use of the substance/mixture composite mortar

Uses advised against

Restrictions on use : Observe technical data sheet. Restricted to professional users

1.3. Details of the supplier of the safety data sheet

Manufacturer

fischerwerke GmbH & Co. KG Klaus-Fischer-Straße 1 72178 Waldachtal Germany

T +49(0)7443 12-0, F +49(0)7443 12-4222 info-sdb@fischer.de, www.fischer.de

Distributor

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Oxon OX10 9AT Wallingford

United Kingdom of Great Britain and Northern Ireland T +44 14 91 82 79 00. F +44 14 91 82 79 53 info@fischer.co.uk, www.fischer.co.uk

1.4. Emergency telephone number

Emergency number : +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1C Eye Dam. 1 H318 Skin Sens. 1 H317 Muta. 2 H341 Repr. 1B H360F STOT SF 3 H335 Aquatic Chronic 2 H411 Full text of hazard classes, 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





GHS08

Signal word (CLP)

Danger

Contains

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700);reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700);trimethylolpropane triglycidyl ether;[3-(2,3-epoxypropoxy)propyl]trimethoxysilane;portland cement

Hazard statements (CLP)

H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects.

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Precautionary statements (CLP)

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

H360F - May damage fertility.

H411 - Toxic to aquatic life with long lasting effects.

: P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing, eye protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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 substance(s) are 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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
portland cement substance with national workplace exposure limit(s) (GB)	CAS-No.: 65997-15-1 EC-No.: 266-043-4	≥ 30 - < 40	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	CAS-No.: 25068-38-6 EC-No.: 500-033-5 EC Index-No.: 603-074-00-8 REACH-no: 01-2119456619-26	≥ 30 - < 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)	CAS-No.: 9003-36-5 EC-No.: 500-006-8 REACH-no: 01-2119454392-40	≥ 10 – < 15	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
trimethylolpropane triglycidyl ether	CAS-No.: 30499-70-8	≥ 10 - < 15	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360F Aquatic Chronic 2, H411
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS-No.: 2530-83-8 EC-No.: 219-784-2 REACH-no: 01-2119513212-58	≥ 5 – < 10	Eye Dam. 1, H318 Aquatic Chronic 3, H412

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	CAS-No.: 25068-38-6 EC-No.: 500-033-5 EC Index-No.: 603-074-00-8 REACH-no: 01-2119456619-26	(5 ≤ C ≤ 100) Eye Irrit. 2; H319 (5 ≤ C ≤ 100) Skin Irrit. 2; H315	

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

SECTION 4: First aid measures

First-aid measures after skin contact

First-aid measures after eye contact

4.1. Description of first aid measures

First-aid measures after inhalation : Remo

: Remove person to fresh air and keep comfortable for breathing.

: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get

medical advice/attention.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Call a physician immediately.

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First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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

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

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.

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.

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 water used to extinguish fire to enter drains, ground or waterways. Avoid direct discharge

into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

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

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use. In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation

exposure to these forms not to exceed the occupational exposure limit.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective

equipment. Avoid breathing vapours.

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 in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

portland cement (65997-15-1)

United Kingdom - Occupational Exposure Limits

Local name	Portland cement
WEL TWA (OEL TWA)	10 mg/m³ inhalable dust 4 mg/m³ respirable dust
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. Breakthrough time: refer to the recommendations of the supplier. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Butyl rubber	2 (> 30 minutes)			

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

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 : Solid
Colour : Light grey.
Appearance : Paste.
Odour : slight.
Odour threshold : Not available
Melting point : Not available
Freezing point : Not available
Boiling point : Not available

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Flammability : Not available
Lower explosion limit : Not applicable
Upper explosion limit : Not applicable
Flash point : > 100 °C
Auto-ignition temperature : Not applicable
Decomposition temperature : Not available
pH : Not available
pH solution : Not available

Viscosity, kinematic : 37500 – 85714.286 mm²/s

Viscosity, dynamic : 60 - 120 Pa·s Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure Vapour pressure at 50°C : Not available : 1.4 - 1.6 g/cm³ Density Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

9.2. Other information

No additional information available

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) (25068-38-6)

LD50 oral rat > 2000 mg/kg bodyweight (OECD 402 method)

reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700) (9003-36-5)

 LD50 oral rat
 > 5000 mg/kg (OECD 401 method)

 LD50 dermal rat
 > 2000 mg/kg (OECD 401 method)

trimethylolpropane triglycidyl ether (30499-70-8)

trimethylospiopane trigiyolayi ether (30433 70 0)	
LD50 oral rat	3398 mg/kg (OECD 401 method)
LD50 dermal	> 3170 mg/kg (OECD 402 method)

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[3-(2,3-epoxypropoxy)propyl]	trimethoxysilane (2530-83-8)
LD50 oral rat	8025 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.3 mg/l/4h (OECD 403 method)
portland cement (65997-15-1)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Neither mortality nor clinical signs of toxicity were observed with the given dose
LC50 Inhalation - Rat	> 5 g/m³ Neither mortality nor clinical signs of toxicity were observed with the given dose
Skin corrosion/irritation	: Causes severe skin burns.
portland cement (65997-15-1)	
рН	12
Serious eye damage/irritation	: Causes serious eye damage.
portland cement (65997-15-1)	
рН	12
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility.
STOT-single exposure	: May cause respiratory irritation.
portland cement (65997-15-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
[3-(2,3-epoxypropoxy)propyl]	trimethoxysilane (2530-83-8)
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Ora Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: other:
Aspiration hazard	: Not classified
FIS EM PLUS 300 T/390 S/585	S/1500 S Component A (Mortar)
Viscosity, kinematic	37500 – 85714.286 mm²/s
[3-(2,3-epoxypropoxy)propyl]	trimethoxysilane (2530-83-8)
Viscosity, kinematic	3.43 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
	1

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)			
LC50 - Fish [1] 2 mg/l Oncorhynchus mykiss (Rainbow trout)			
EC50 - Crustacea [1] 1.8 mg/l Daphnia magna (Water flea)			
EC50 72h - Algae [1]	9.1 mg/l		
ErC50 algae	11 mg/l		
reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700) (9003-36-5)			
LC50 - Fish [1]	2.54 mg/l		
EC50 - Crustacea [1] 2.55 mg/l Daphnia magna (Water flea)			

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reaction product: bisphenol-F-(epichlo	orhydrin) Epoxy resin (number average molecular weight <=	
EC50 72h - Algae [1]	> 1.8 mg/l (OECD 201 method)	
NOEC chronic crustacea	0.3 mg/l	
trimethylolpropane triglycidyl ether (30499-70-8)		
LC50 - Fish [1]	75 mg/l (OECD 203 method)	
EC50 - Crustacea [1]	3.7 mg/l	
ErC50 algae	9 mg/l	
NOEC chronic algae	2.5 mg/l Pseudokirchneriella subcapitata (OECD 201 method)	
[3-(2,3-epoxypropoxy)propyl]trimethox	ysilane (2530-83-8)	
LC50 - Fish [1]	55 mg/l Cyprinus carpio (Common carp)	
EC50 - Crustacea [1]	324 mg/l Daphnia magna (Water flea)	
EC50 72h - Algae [1]	255 mg/l	
LOEC (chronic)	> 100 mg/l Daphnia magna (Water flea) - 21 d	
NOEC (chronic)	≥ 100 mg/l Daphnia magna (Water flea) - 21 d	
NOEC chronic crustacea	≥ 100 mg/l Daphnia magna (Water flea) (OECD 202 method)	

12.2. Persistence and degradability

FIS EM PLUS 300 T/390 S/585 S/1500 S	Component A (Mortar)	
Persistence and degradability	Not rapidly degradable	
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)		
Persistence and degradability	Rapidly degradable	
Biodegradation	12 % 28 d (OECD-Methode 302B)	
reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700) (9003-36-5)		
Persistence and degradability	Not rapidly degradable	
trimethylolpropane triglycidyl ether (3	0499-70-8)	
Persistence and degradability	Not rapidly degradable	
Biodegradation	25 % (OECD 302B method)	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)		
Persistence and degradability	Not rapidly degradable	
portland cement (65997-15-1)		
Persistence and degradability	Not rapidly degradable	

12.3. Bioaccumulative potential

reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight <= 700) (9003-36-5)	
	_

Partition coefficient n-octanol/water (Log Pow)

3.6 (OECD 117 method)

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

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

Additional information

European List of Waste (LoW, EC 2000/532)

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Only pass on empty containers/packaging for recycling.
- Not classified as hazardous waste when part A and part B are mixed and are fully cured.
- $08\ 04\ 09^{\star}$ waste adhesives and sealants containing organic solvents or other dangerous substances 20 01 27* - paint, inks, adhesives and resins containing dangerous substances

Dangerous for the environment: Yes

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA			
ADR	IMDG	IATA	
14.1. UN number or ID number			
UN 1759	UN 1759	UN 1759	
14.2. UN proper shipping name			
CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidyl ether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidyl ether)	Corrosive solid, n.o.s. (trimethylolpropane triglycidyl ether)	
Transport document description			
UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidyl ether), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidyl ether), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1759 Corrosive solid, n.o.s. (trimethylolpropane triglycidyl ether), 8, III, ENVIRONMENTALLY HAZARDOUS	
14.3. Transport hazard class(es)			
8	8	8	
8	8	8	
14.4. Packing group			
III	III	Ш	

Dangerous for the environment: Yes

Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-B

No supplementary information available

14.5. Environmental hazards

Dangerous for the environment: Yes

14.6. Special precautions for user

Overland transport

Orange plates

Classification code (ADR) : C10 Special provisions (ADR) : 274 Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

: P002, IBC08, LP02, R001 Packing instructions (ADR)

Special packing provisions (ADR) : B3 MP10 Mixed packing provisions (ADR) : Transport category (ADR)

> 80 1759 Ε

Tunnel restriction code (ADR)

EAC code 2X

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Transport by sea

Special provisions (IMDG) : 223, 274
Limited quantities (IMDG) : 5 kg
Packing instructions (IMDG) : P002, LP02

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

Air transport

PCA packing instructions (IATA) : 860
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 864
CAO max net quantity (IATA) : 100kg
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 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 the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
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	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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Full text of H- and EUH-statements:		
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H360F	May damage fertility.	
H411	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. 1C	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 2	H341	Calculation method
Repr. 1B	H360F	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

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.



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

1.1. Product identifier

Product form : Mixture

Trade name : FIS EM PLUS 300 T/390 S/585 S/1500 S Component B (Hardener)

UFI : MK20-C0G0-800F-PKW9

Article number M48

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

Relevant identified uses

: Industrial use, Professional use Main use category

Use of the substance/mixture composite mortar

Uses advised against

Restrictions on use : Observe technical data sheet. Restricted to professional users

1.3. Details of the supplier of the safety data sheet

Manufacturer Distributor

fischerwerke GmbH & Co. KG fischer fixings UK Ltd. Klaus-Fischer-Straße 1 Whitely Road 72178 Waldachtal

Oxon OX10 9AT Wallingford

United Kingdom of Great Britain and Northern Ireland Germany T +49(0)7443 12-0, F +49(0)7443 12-4222 T +44 14 91 82 79 00. F +44 14 91 82 79 53 info-sdb@fischer.de, www.fischer.de info@fischer.co.uk, www.fischer.co.uk

1.4. Emergency telephone number

Emergency number : +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin Corr. 1B Eye Dam. 1 H318 Skin Sens. 1 H317 STOT SF 3 H335 Aquatic Chronic 3 H412 Full text of hazard classes, 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

Signal word (CLP)

Contains m-phenylenebis(methylamine);benzyl alcohol;2,4,6-tris(dimethylaminomethyl)phenol;portland cement

Hazard statements (CLP) H314 - Causes severe skin burns and eye damage.

: Danger

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) P201 - Obtain special instructions before use.

P280 - Wear protective gloves, eye protection, protective clothing.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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 substance(s) are 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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
m-phenylenebis(methylamine)	CAS-No.: 1477-55-0 EC-No.: 216-032-5 REACH-no: 01-2119480150-50	≥ 30 - < 40	Acute Tox. 4 (Oral), H302 (ATE=930 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=2.4 mg/l/4h) Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412 EUH071
portland cement substance with national workplace exposure limit(s) (GB)	CAS-No.: 65997-15-1 EC-No.: 266-043-4	≥ 30 - < 40	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
aliphatic polyamine	-	≥ 15 – < 25	Aquatic Chronic 4, H413
benzyl alcohol	CAS-No.: 100-51-6 EC-No.: 202-859-9 EC Index-No.: 603-057-00-5 REACH-no: 01-2119492630-38	≥ 2.5 - < 10	Acute Tox. 4 (Oral), H302 (ATE=1580 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1B, H317
2,4,6-tris(dimethylaminomethyl)phenol	CAS-No.: 90-72-2 EC-No.: 202-013-9 EC Index-No.: 603-069-00-0 REACH-no: 01-2119560597-27	≥ 2.5 – < 5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318

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 after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. 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. Call a physician immediately.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

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

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

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

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.

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 water used to extinguish fire to enter drains, ground or waterways. Avoid direct discharge

into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing

dust/fume/gas/mist/vapours/spray.

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

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use. In the event that

dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation

exposure to these forms not to exceed the occupational exposure limit.

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective

equipment. Avoid breathing vapours.

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 in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

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portland cement (65997-15-1)

United Kingdom - Occupational Exposure Limits

Local name	Portland cement
WEL TWA (OEL TWA)	10 mg/m³ inhalable dust 4 mg/m³ respirable dust
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. Breakthrough time: refer to the recommendations of the supplier. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR), Butyl rubber	2 (> 30 minutes)			

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

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 : Solid Colour : Black. : Amine-like. Odour Odour threshold Not available : Not available Melting point Freezing point : Not available Boiling point Not available Flammability Not available Lower explosion limit : Not applicable Not applicable Upper explosion limit Not applicable Flash point Auto-ignition temperature Not applicable Decomposition temperature : Not available

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pH : Not available pH solution : Not available

Viscosity, kinematic : 55172.414 – 133333.333 mm²/s

Viscosity, dynamic : 80 - 180 Pa·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 : 1.35 - 1.45 g/cm³ Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

9.2. Other information

No additional information available

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

total totals (I maid to 1)			
m-phenylenebis(methylamine) (1477-55-0)			
LD50 oral rat	930 mg/kg		
LD50 dermal rat	> 3100 mg/kg bodyweight		
LC50 Inhalation - Rat (Dust/Mist)	2.4 mg/l/4h		
benzyl alcohol (100-51-6)			
LD50 oral	1580 mg/kg bodyweight mouse (OECD 401 method)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight		
C50 Inhalation - Rat > 4178 mg/l/4h (OECD 403 method)			
2,4,6-tris(dimethylaminomethy	rl)phenol (90-72-2)		
LD50 oral rat 2169 mg/kg bodyweight (OECD 401 method)			
portland cement (65997-15-1)			
LD50 dermal rabbit	> 2000 mg/kg bodyweight Neither mortality nor clinical signs of toxicity were observed with the given dose		
LC50 Inhalation - Rat > 5 g/m³ Neither mortality nor clinical signs of toxicity were observed with the given dose			

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Skin corrosion/irritation : Causes severe skin burns.

portland cement (65997-15-1)

pH 12

Serious eye damage/irritation : Causes serious eye damage.

portland cement (65997-15-1)

pH 12

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

portland cement (65997-15-1)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

benzyl alcohol (100-51-6)

NOAEL (oral, rat, 90 days) 400 mg/kg bodyweight/day (OECD 451 method)

Aspiration hazard : Not classified

FIS EM PLUS 300 T/390 S/585 S/1500 S Component B (Hardener)

Viscosity, kinematic 55172.414 – 133333.333 mm²/s

benzyl alcohol (100-51-6)

Viscosity, kinematic 0.005 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

m-phenylenebis (methylamine) (1477-5	5-0)
LC50 Fish [1]	97.6 mg/l On/zias latinos (Picofish)

2030 - 1 1811 [1]	07.0 High Oryzias latipes (Ricelish)
EC50 - Crustacea [1]	15.2 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	20.3 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	33.3 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	15 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	4.7 mg/l Daphnia magna (Water flea)

NOEC chronic crustacea 4.7 mg/l Daphnia magna (Water flea)

benzyl alcohol (100-51-6)

LC50 - Fish [1]	460 mg/l Pimephales promelas
EC50 - Crustacea [1]	230 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	770 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	500 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	48.9 mg/l
NOEC chronic crustacea	51 mg/l Daphnia magna (Water flea)
NOEC chronic algae	310 mg/l Desmodesmus subspicatus

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

LC50 - Fish [1] > 100 mg/l Cyprinus carpio (Common carp)

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2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	84 mg/l (OECD 201 method)
NOEC (chronic)	2 mg/l

12.2. Persistence and degradability

FIS EM PLUS 300 T/390 S/585 S/1500 S Component B (Hardener)		
Persistence and degradability	Not rapidly degradable	
m-phenylenebis(methylamine) (1477-55-0)		
Persistence and degradability	Not rapidly degradable	
benzyl alcohol (100-51-6)		
Persistence and degradability	Rapidly degradable	
aliphatic polyamine		
Persistence and degradability	Not rapidly degradable	
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)		
Persistence and degradability	Rapidly degradable	
portland cement (65997-15-1)		
Persistence and degradability	Not rapidly degradable	

12.3. Bioaccumulative potential

No additional information available

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

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

: Only pass on empty containers/packaging for recycling.

Additional information

: Not classified as hazardous waste when part A and part B are mixed and are fully cured.

European List of Waste (LoW, EC 2000/532)

: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 20 01 27* - paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 3259	UN 3259	UN 3259
14.2. UN proper shipping name		
AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	Amines, solid, corrosive, n.o.s. (m- phenylenebis(methylamine))

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ADR	IMDG	IATA
Transport document description		
UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, II, (E)	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine)), 8, II	UN 3259 Amines, solid, corrosive, n.o.s. (m- phenylenebis(methylamine)), 8, II
14.3. Transport hazard class(es)		
8	8	8
8	8	8
14.4. Packing group		
П	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-A EmS-No. (Spillage): S-B	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C8 Special provisions (ADR) 274 Limited quantities (ADR) 1kg Excepted quantities (ADR) : E2 Packing instructions (ADR) : P002, IBC08 : B4 Special packing provisions (ADR) Mixed packing provisions (ADR) MP10 Transport category (ADR) : 2 Special provisions for carriage - Packages (ADR) V11

Orange plates : V

80 3259

Tunnel restriction code (ADR) : E EAC code : 2X

Transport by sea

 Special provisions (IMDG)
 : 274

 Limited quantities (IMDG)
 : 1 kg

 Packing instructions (IMDG)
 : P002

Properties and observations (IMDG) : Colourless to yellowish solids with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Cause burns to

skin, eyes and mucous membranes. React violently with acids.

Air transport

PCA packing instructions (IATA) : 859
PCA max net quantity (IATA) : 15kg
CAO packing instructions (IATA) : 863
CAO max net quantity (IATA) : 50kg
Special provisions (IATA) : A3, A803
ERG code (IATA) : 8L

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 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 the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
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	

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Abbreviations and acronyms:		
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	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and	I EUH-statements:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
EUH071	Corrosive to the respiratory tract.	

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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
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

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