

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.12.2022

Version number 10 (replaces version 9)

Revision: 09.12.2022

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

1.1 Product identifier

Trade name: **Acryclean**

Article number: 87600, 87601, 87602

UFI: EHM7-5FHC-A489-Q2R4

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

No further relevant information available.

Application of the substance / the mixture

Cleaner solvent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep cool.
Store in a well-ventilated place. Keep container tightly closed.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Storage:

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07 GHS08 GHS09

Signal word

Danger

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· <u>Hazard-determining components of labelling:</u>	reaction mass of ethylbenzole and xylene
· <u>Hazard statements</u>	Naphtha (petroleum), hydrotreated light
	H225 Highly flammable liquid and vapour.
	H332 Harmful if inhaled.
	H315 Causes skin irritation.
	H319 Causes serious eye irritation.
	H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
	H373 May cause damage to organs through prolonged or repeated exposure.
	H304 May be fatal if swallowed and enters airways.
	H411 Toxic to aquatic life with long lasting effects.
· <u>Precautionary statements</u>	P101 If medical advice is needed, have product container or label at hand.
	P102 Keep out of reach of children.
	P103 Read carefully and follow all instructions.
	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261 Avoid breathing mist/vapours/spray.
	P271 Use only outdoors or in a well-ventilated area.
	P273 Avoid release to the environment.
	P280 Wear protective gloves / eye protection.
	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P331 Do NOT induce vomiting.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P501 Dispose of contents/container in accordance with local/ regional/national/international regulations.
· 2.3 Other hazards	The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
· <u>Results of PBT and vPvB assessment</u>	
· <u>PBT:</u>	Not applicable.
· <u>vPvB:</u>	Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**· Description: Mixture: consisting of the following components.· Dangerous components:

CAS: 64742-49-0 EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Naphtha (petroleum), hydrotreated light Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 EUH066	50-100%
EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 01-2119486136-34	reaction mass of ethylbenzole and xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%

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· Regulation (EC) No 648/2004 on detergents / Labelling for contents

aromatic hydrocarbons, aliphatic hydrocarbons

≥30%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures· **4.1 Description of first aid measures**· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water.

· After swallowing:

Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Dizziness

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures· **5.1 Extinguishing media**· Suitable extinguishing agents:CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· For safety reasons unsuitable extinguishing agents:

Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbon monoxide (CO)

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**· Protective equipment:

Mount respiratory protective device.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

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Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Storage class:

3

· 7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

reaction mass of ethylbenzole and xylene

AGW Short-term value: 442 mg/m³, 100 ppm

Long-term value: 221 mg/m³, 50 ppm

H

· DNELs

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral DNEL (Langzeit-wiederholt) 699 mg/kg bw/day (BEV)

Dermal DNEL (Langzeit-wiederholt) 773 mg/kg bw/day (ARB)

699 mg/kg bw/day (BEV)

Inhalative DNEL (Langzeit-wiederholt) 2,035 mg/m³ Air (ARB)

608 mg/m³ Air (BEV)

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reaction mass of ethylbenzole and xylene

Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	180 mg/kg bw/day (ARB)
		108 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	289-442 mg/m ³ Air (ARB)
		174 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	77-221 mg/m ³ Air (ARB)
		14.8-65.3 mg/m ³ Air (BEV)

· **PNECs****reaction mass of ethylbenzole and xylene**

PNEC (wässrig)	6.58 mg/l (KA)
	0.327 mg/l (MW)
	0.327 mg/l (SW)
PNEC (fest)	2.31 mg/kg Trockengew (BO)
	12.46 mg/kg Trockengew (MWS)
	12.46 mg/kg Trockengew (SWS)

· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Clean skin thoroughly immediately after handling the product.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.

- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter AX

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

- **Hand protection** Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the

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scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

· Material of gloves

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove materialValue for the permeation: Level $\leq$ 6, 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art_No. 890)

Butyl rubber, BR

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Butoject (KCL, Art_No. 897, 898)

Butyl rubber, BR

· Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

· Eye/face protection

Tightly sealed goggles

· Body protection:

Use protective suit.

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**· General Information· Colour:

According to product specification

· Odour:

Specific type

· Odour threshold:

Not determined.

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

98-140 °C

· Flammability

Not applicable.

· Lower and upper explosion limit· Lower:

0.7 Vol %

· Upper:

7 Vol %

· Flash point:

2 °C

· Ignition temperature:

500 °C

· Decomposition temperature:

Not determined.

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· <u>pH</u>	Not determined. Not applicable
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic:</u>	Not determined.
· <u>Solubility</u>	
· <u>water:</u>	Not miscible or difficult to mix.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure at 20 °C:</u>	30 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	0.8 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

· 9.2 Other information

· <u>Appearance:</u>	
· <u>Form:</u>	Fluid
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Auto-ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <u>Solvent content:</u>	
· <u>Organic solvents:</u>	100.0 %
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not applicable.

· Information with regard to physical hazard classes

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Highly flammable liquid and vapour.
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity	No further relevant information available.
· 10.2 Chemical stability	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications.

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· **10.3 Possibility of hazardous reactions**

No dangerous reactions known.

· **10.4 Conditions to avoid**

No further relevant information available.

· **10.5 Incompatible materials:**

No further relevant information available.

· **10.6 Hazardous decomposition products:**

No dangerous decomposition products known.

SECTION 11: Toxicological information

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

· Acute toxicity Harmful if inhaled.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Dermal	LD50	5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	15.9-16.8 mg/l (rat)

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,800 mg/kg (rabbit)
	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>23.3 mg/l (rat)

reaction mass of ethylbenzole and xylene

Oral	LD50	3,523 mg/kg (rat)
	NOAEL-Werte	250 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m3 (rat)
	LC50/4 h	27.124 mg/l (rat)

· Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

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

· 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

May cause respiratory irritation. May cause drowsiness or dizziness.

· STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

· Aspiration hazard

May be fatal if swallowed and enters airways.

· **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50/48h	4.6-10 mg/l (daphnia magna)
EL50/72h	10-30 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	>13.4 mg/l (Oncorhynchus mykiss)
NOELR/72h	10 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	0.17 mg/l (daphnia magna)

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LC50/96h	<10 mg/l (daphnia magna) 3-10 mg/l (Oncorhynchus mykiss)
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reaction mass of ethylbenzole and xylene

LC50/24h	1 mg/l (daphnia magna) (OECD 202)
EC50/48h	3.2-9.5 mg/l (daphnia magna) (US EPA)
ErC50/72h	4.9 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	16 mg/l (BES) 1.3 mg/l (Oncorhynchus mykiss)
NOELR/72h	0.44 mg/l (green alga)
NOEC/21d	1.57 mg/l (daphnia magna) (OECD 211)
NOELR/28d	16 mg/l (bacteria)
EC50/72h	2.2 mg/l (Selenastrum capricornutum) (OECD 201)
LC50/96h	2.6 mg/l (Oncorhynchus mykiss) (OECD 203) 8.9-16.4 mg/l (Pimephales promelas)

- **12.2 Persistence and degradability**

No further relevant information available.

- **12.3 Bioaccumulative potential**

No further relevant information available.

- **12.4 Mobility in soil**

No further relevant information available.

- **12.5 Results of PBT and vPvB assessment**

- PBT:

Not applicable.

- vPvB:

Not applicable.

- **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- **12.7 Other adverse effects**

- Remark:

Toxic for fish

- Additional ecological information:

- General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:

- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- ADR, IMDG, IATA

UN3295

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14.2 UN proper shipping name· ADR· IMDG· IATA

3295 HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, XYLENES), ENVIRONMENTALLY HAZARDOUS, special provision 640D
 HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, XYLENES), MARINE POLLUTANT
 HYDROCARBONS, LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light, XYLENES)

14.3 Transport hazard class(es)· ADR
 · Class
 · Label

 3 (F1) Flammable liquids.
 3
· IMDG
 · Class
 · Label

 3 Flammable liquids.
 3
· IATA
 · Class
 · Label

 3 Flammable liquids.
 3
14.4 Packing group· ADR, IMDG, IATA

II

14.5 Environmental hazards:· Marine pollutant:

Product contains environmentally hazardous substances:

Yes

· Special marking (ADR):

Symbol (fish and tree)

Symbol (fish and tree)

14.6 Special precautions for user· Hazard identification number (Kemler code):

Warning: Flammable liquids.

· EMS Number:

33

F-E,S-D

· Stowage Category

B

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:· ADR· Limited quantities (LQ)· Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

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· <u>Transport category</u>	2
· <u>Tunnel restriction code</u>	D/E
· <u>IMDG</u>	1L
· <u>Limited quantities (LQ)</u>	Code: E2
· <u>Excepted quantities (EQ)</u>	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <u>UN "Model Regulation":</u>	UN 3295 HYDROCARBONS, LIQUID, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED LIGHT, XYLENES), 3, II, ENVIRONMENTALLY HAZARDOUS

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

- Directive 2012/18/EU
 - Named dangerous substances - ANNEX I
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - REGULATION (EC) No 1907/2006 ANNEX XVII
- None of the ingredients is listed.
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- 200 t
- 500 t
- Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 800.0 g/l

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· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS:

Laboratory

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· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2