

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 08.08.2018

Version 1.2

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

1.1 Product identifier

Catalogue No. 108297

Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph
Eur

REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

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

Identified uses Reagent for analysis, Solvent
For additional information on uses please refer to the Merck Chemicals
portal (www.merckgroup.com).

1.3 Details of the supplier of the safety data sheet

Company Merck KGaA * 64271 Darmstadt * Germany * Phone:+49 6151 72-0

Responsible Department LS-QHC * e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone number Please contact the regional company representation in your country.

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Flammable liquid, Category 3, H226

Acute toxicity, Category 4, Inhalation, H332

Acute toxicity, Category 4, Dermal, H312

Skin irritation, Category 2, H315

Specific target organ toxicity - single exposure, Category 3, Respiratory system, H335

Specific target organ toxicity - repeated exposure, Category 2, Central nervous system, Liver, Kidney, H373

Aspiration hazard, Category 1, H304

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 + H332 Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.

Precautionary statements

Prevention

P210 Keep away from heat.

Response

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P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P314 Get medical advice/ attention if you feel unwell.

Reduced labelling (≤125 ml)

Hazard pictograms



Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

2.3 Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature

Solvent mixture

3.1 Substance

Not applicable

3.2 Mixture

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical name (Concentration)

CAS-No. Registration number Classification

Xylene (Mixture of isomers) (>= 50 % - <= 100 %)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

1330-20-7

01-2119488216-32-

xxxx

Flammable liquid, Category 3, H226

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Acute toxicity, Category 4, H332

Acute toxicity, Category 4, H312

Skin irritation, Category 2, H315

Specific target organ toxicity - single exposure, Category 3, H335

Specific target organ toxicity - repeated exposure, Category 2,
H373

Aspiration hazard, Category 1, H304

ethylbenzene ($\geq 1\%$ - $< 10\%$)

100-41-4 *)

Flammable liquid, Category 2, H225

Acute toxicity, Category 4, H332

Specific target organ toxicity - repeated exposure, Category 2,
H373

Aspiration hazard, Category 1, H304

Toluene ($< 0,3\%$)

108-88-3 01-2119471310-51-
xxxx

Flammable liquid, Category 2, H225

Skin irritation, Category 2, H315

Reproductive toxicity, Category 2, H361d

Specific target organ toxicity - single exposure, Category 3, H336

Specific target organ toxicity - repeated exposure, Category 2,
H373

Aspiration hazard, Category 1, H304

*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4. First aid measures

4.1 Description of first aid measures

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration.

Oxygen if necessary. Immediately call in physician.

After skin contact: wash off with plenty of water. Remove contaminated clothing. Consult a physician.

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Call a physician immediately. Pulmonary failure possible after aspiration of vomit.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects, Cough, Shortness of breath

somnolence, Dizziness, Headache, euphoria, agitation, spasms, narcosis

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, Carbon dioxide (CO₂), Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible.

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

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Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about waste treatment see section 13.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Observe label precautions.

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Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

Xylene (Mixture of isomers) (1330-20-7)

Worker DNEL, acute	Local and systemic effects	inhalation	289 mg/m ³
Worker DNEL, longterm	Systemic effects	dermal	180 mg/kg Body weight
Worker DNEL, longterm	Systemic effects	inhalation	77 mg/m ³
Consumer DNEL, acute	Local and systemic effects	inhalation	174 mg/m ³
Consumer DNEL, longterm	Systemic effects	dermal	108 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	inhalation	14,8 mg/m ³

Toluene (108-88-3)

Worker DNEL, acute	Systemic effects	inhalation	384 mg/m ³
Worker DNEL, acute	Local effects	inhalation	343 mg/m ³

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Worker DNEL, longterm	Systemic effects	inhalation	192 mg/m ³
Worker DNEL, longterm	Local effects	inhalation	192 mg/m ³
Worker DNEL, longterm	Systemic effects	dermal	384 mg/kg Body weight
Consumer DNEL, acute	Systemic effects	inhalation	226 mg/m ³
Consumer DNEL, acute	Local effects	inhalation	226 mg/m ³
Consumer DNEL, longterm	Systemic effects	inhalation	56,5 mg/m ³
Consumer DNEL, longterm	Systemic effects	oral	8,13 mg/kg Body weight
Consumer DNEL, longterm	Systemic effects	dermal	226 mg/kg Body weight

Predicted No Effect Concentration (PNEC)

Xylene (Mixture of isomers) (1330-20-7)

PNEC Fresh water	0,327 mg/l
PNEC Marine water	0,327 mg/l
PNEC Aquatic intermittent release	0,327 mg/l
PNEC Sewage treatment plant	6,58 mg/l
PNEC Fresh water sediment	12,46 mg/kg
PNEC Marine sediment	12,46 mg/kg
PNEC Soil	2,31 mg/kg

Toluene (108-88-3)

PNEC Fresh water	0,68 mg/l
PNEC Fresh water sediment	16,39 mg/kg
PNEC Soil	2,89 mg/kg

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

PNEC Sewage treatment plant

13,61 mg/l

8.2 Exposure controls

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection

Safety glasses

Hand protection

full contact:

Glove material:	Viton (R)
Glove thickness:	0,7 mm
Break through time:	> 480 min

splash contact:

Glove material:	Viton (R)
Glove thickness:	0,7 mm
Break through time:	> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 890 Vitoject® (full contact), KCL 890 Vitoject® (splash contact).

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

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Other protective equipment

Flame retardant antistatic protective clothing.

Respiratory protection

required when vapours/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls

Do not let product enter drains.

Risk of explosion.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	aromatic
Odour Threshold	No information available.
pH	No information available.
Melting point	-25 °C
Boiling point/boiling range	136 - 145 °C at 1.013 hPa
Flash point	24 °C

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Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	1 %(V)
Upper explosion limit	8 %(V)
Vapour pressure	8 hPa at 20 °C 45 hPa at 50 °C
Relative vapour density	No information available.
Density	0,87 g/cm ³ at 20 °C
Relative density	No information available.
Water solubility	0,175 g/l at 25 °C
Partition coefficient: n-octanol/water	log Pow: 2,77 - 3,15 Bioaccumulation is not expected.
Auto-ignition temperature	ca. 460 °C
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Oxidizing properties none

9.2 Other data

Viscosity, kinematic < 0,9 mm²/s
at 20 °C

SECTION 10. Stability and reactivity

10.1 Reactivity

Vapour/air-mixtures are explosive at intense warming.

10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3 Possibility of hazardous reactions

Exothermic reaction with:

Strong oxidizing agents, Acids, sulfur, with, conc. sulfuric acid

Risk of explosion/exothermic reaction with:

Nitric acid, uranium hexafluoride

10.4 Conditions to avoid

Heating.

10.5 Incompatible materials

rubber, various plastics, Light metals

10.6 Hazardous decomposition products

no information available

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Mixture

Acute oral toxicity

Symptoms: Gastrointestinal disturbance, Risk of aspiration upon vomiting., Pulmonary failure possible after aspiration of vomit.

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Acute inhalation toxicity

Acute toxicity estimate: 11,23 mg/l; 4 h ; vapour

Calculation method

Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract., mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract absorption

Acute dermal toxicity

Acute toxicity estimate : 1.134 mg/kg

Calculation method

absorption

Skin irritation

Drying-out effect resulting in rough and chapped skin.

Mixture causes skin irritation.

Eye irritation

This information is not available.

Sensitisation

This information is not available.

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

Mixture may cause respiratory irritation.

Target Organs: Respiratory system

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Specific target organ toxicity - repeated exposure

Mixture may cause damage to organs through prolonged or repeated exposure.

Target Organs: Central nervous system, Liver, Kidney

Aspiration hazard

Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.

11.2 Further information

After long-term exposure to the chemical:

Dermatitis

After absorption of toxic quantities:

Systemic effects:

Headache, somnolence, Dizziness, euphoria, agitation, spasms, narcosis, Unconsciousness, inebriation, respiratory paralysis

Effect potentiated by: ethanol

Damage to:

Kidney, Central nervous system, Liver

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components

Xylene (Mixture of isomers)

Acute oral toxicity

LD50 Rat: 3.523 mg/kg

(ECHA)

Acute inhalation toxicity

Acute toxicity estimate: 11,1 mg/l; vapour

Expert judgement

Acute dermal toxicity

Acute toxicity estimate : 1.100,1 mg/kg

Expert judgement

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Skin irritation

Rabbit

Result: Irritations

(IUCLID)

Sensitisation

In animal experiments: Mouse

Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 429

Germ cell mutagenicity

Genotoxicity in vitro

Mutagenicity (mammal cell test): chromosome aberration.

Result: negative

(National Toxicology Program)

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

Carcinogenicity

No indication of carcinogenic activity. (IUCLID)

ethylbenzene

Acute oral toxicity

LD50 Rat: 3.500 mg/kg

(IUCLID)

Acute inhalation toxicity

LC50 Rat: 17,2 mg/l; 4 h ; vapour

(IUCLID)

Acute dermal toxicity

LD50 Rabbit: 15.354 mg/kg

(IUCLID)

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Sensitisation

Patch test: human

Result: negative

(IUCLID)

Repeated dose toxicity

Rat

male and female

Oral

90 d

daily

NOAEL: 75 mg/kg

LOAEL: 250 mg/kg

OECD Test Guideline 408

Germ cell mutagenicity

Genotoxicity in vivo

Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)

Mouse

male and female

Inhalation

Result: negative

Method: OECD Test Guideline 474

Genotoxicity in vitro

Mutagenicity (mammal cell test):

Mouse lymphoma test

Result: negative

Method: OECD Test Guideline 476

Ames test

Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

Mutagenicity (mammal cell test):

Result: negative

Method: OECD Test Guideline 479

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Toluene

Acute oral toxicity

LD50 Rat: 5.580 mg/kg

Tested according to Directive 92/69/EEC.

Acute inhalation toxicity

LC50 Rat: 25,7 mg/l; 4 h ; vapour

OECD Test Guideline 403

Acute dermal toxicity

LD50 Rabbit: 12.124 mg/kg

(ECHA)

Skin irritation

Rabbit

Result: irritating

(ECHA)

Eye irritation

Rabbit

Result: No eye irritation

(ECHA)

Germ cell mutagenicity

Genotoxicity in vivo

Chromosome aberration test

Rat

i.p.

Result: negative

(ECHA)

Genotoxicity in vitro

In vitro mammalian cell gene mutation test

Mouse lymphoma test

Result: negative

Method: OECD Test Guideline 476

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Ames test

Result: negative

(Lit.)

SECTION 12. Ecological information

Mixture

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

log Pow: 2,77 - 3,15

Bioaccumulation is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

Components

Xylene (Mixture of isomers)

Toxicity to fish (Chronic toxicity)

flow-through test NOEC *Oncorhynchus mykiss* (rainbow trout): > 1,3 mg/l; 56 d

(ECHA)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

ethylbenzene

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Product name Xylene (isomeric mixture) for analysis EMSURE® ACS,ISO,Reag. Ph Eur

Toxicity to fish

LC50 *Oncorhynchus mykiss* (rainbow trout): 4,2 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

static test EC50 *Daphnia magna* (Water flea): 1,8 - 2,4 mg/l; 48 h

Analytical monitoring: yes

US-EPA

Toxicity to algae

EC50 *Pseudokirchneriella subcapitata* (green algae): 4,6 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

Toxicity to bacteria

EC50 *Photobacterium phosphoreum*: 9,68 mg/l; 30 min

(IUCLID)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

semi-static test NOEC *Ceriodaphnia dubia* (water flea): 1 mg/l; 7 d

US-EPA

Biodegradability

81 - 100 %; 14 d; aerobic

OECD Test Guideline 302C

Readily eliminated from water

Distribution among environmental compartments

Adsorption/Soil

log K_{oc}: 2,31

(experimental)

Moderately mobile in soils (Lit.)

Toluene

Toxicity to fish

LC50 *Oncorhynchus mykiss* (rainbow trout): 5,8 mg/l; 96 h

(ECOTOX Database)

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Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 6 mg/l; 48 h

(ECOTOX Database)

NOEC E.sulcatum: 456 mg/l; 72 h

(IUCLID)

Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae): 12 mg/l; 72 h

(Lit.)

Toxicity to bacteria

EC50 Photobacterium phosphoreum: 20 mg/l; 30 min

(Lit.)

Biodegradability

69 - 81 %; 5 d; aerobic

APHA NO. 219

(ECHA)

Readily biodegradable

Theoretical oxygen demand (ThOD)

3.130 mg/g

(Lit.)

Partition coefficient: n-octanol/water

log Pow: 2,65

(experimental)

(IUCLID) Bioaccumulation is not expected.

Distribution among environmental compartments

Adsorption/Soil

log Koc: 2,15

(experimental)

Moderately mobile in soils (Lit.)

Henry constant

683 Pa·m³/mol

(Lit.) Distribution preferentially in air.

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SECTION 13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

SECTION 14. Transport information

Land transport (ADR/RID)

14.1 UN number	UN 1307
14.2 Proper shipping name	XYLENES
14.3 Class	3
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	yes
Tunnel restriction code	D/E

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

14.1 UN number	UN 1307
14.2 Proper shipping name	XYLENES
14.3 Class	3
14.4 Packing group	III
14.5 Environmentally hazardous	--
14.6 Special precautions for user	no

Sea transport (IMDG)

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14.1 UN number UN 1307

14.2 Proper shipping name XYLENES

14.3 Class 3

14.4 Packing group III

14.5 Environmentally hazardous --

14.6 Special precautions for user
yes

EmS F-E S-D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15. Regulatory information

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

EU regulations

Major Accident Hazard SEVESO III

Legislation FLAMMABLE LIQUIDS

P5c

Quantity 1: 5.000 t

Quantity 2: 50.000 t

Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work. Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

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Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

National legislation

Storage class 3

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

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Used abbreviations and acronyms can be looked up at www.wikipedia.org.

Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.