

Safety Data Sheet

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



Trade name : Special stamping ink 186
red
Revision date : 09.11.2020
Print date : 09.11.2020

Version (Revision) : 17.1.2 (17.1.1)

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

1.1 Product identifier

Special stamping ink 186
red (15030100002038)
Unique Formula Identifier (UFI): NEEP-24GR-4YEX-8VPG

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

Relevant identified uses

Industrial marking ink

1.3 Details of the supplier of the safety data sheet

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

Stefan Kupietz GmbH & Co. KG
Chemische Fabrik

Street : August-Wilhelm-Kühnholz-Str. 9

Postal code/city : 26135 Oldenburg

Telephone : +49(0)441/20 69 50

Telefax : +49(0)441 /20 69 520

Information contact : E-Mail: info@kupietz.de

1.4 Emergency telephone number

Poison emergency centre +49-551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.
Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.
STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

ACETONE ; CAS No. : 67-64-1

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.

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P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

ETHANOL ; REACH Registration No. : 01-2119457610-43-xxxx ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction : < 55 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

ACETONE ; REACH Registration No. : 01-2119471330-49-xxxx ; EC No. : 200-662-2; CAS No. : 67-64-1

Weight fraction : < 35 %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

1-METHOXY-2-PROPANOL ; REACH Registration No. : 01-2119457435-35-xxxx ; EC No. : 203-539-1; CAS No. : 107-98-2

Weight fraction : < 10 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

Additional information

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Immediately remove all contaminated clothing.

Following inhalation

Provide fresh air.

In case of skin contact

Wash away with soap and water and rinse.

After eye contact

Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

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5.2 Special hazards arising from the substance or mixture

None

5.3 Advice for firefighters

None

5.4 Additional information

Cool endangered containers with water in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours.

6.2 Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Remove mechanically, take-up residues with absorbing material.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Normal precautions taken when handling chemicals should be observed. Only use in locations with adequate suction ventilation.

Protective measures

Measures to prevent fire

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

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Do not leave vessels open, earth storage containers.

Hints on joint storage

Store the foodstuffs separately. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Storage class (TRGS 510) : 3

Further information on storage conditions

Store containers tightly closed in a cool well ventilated place.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 200 ppm / 380 mg/m³

Peak limitation : 4(II)

Remark : Y

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Version : 29.03.2019
ACETONE ; CAS No. : 67-64-1
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 500 ppm / 1200 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 29.03.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 500 ppm / 1210 mg/m³
Version : 20.06.2019
1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 370 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 29.03.2019
Limit value type (country of origin) : STEL (EC)
Limit value : 150 ppm / 568 mg/m³
Remark : Skin
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 375 mg/m³
Remark : Skin
Version : 20.06.2019

Biological limit values

ACETONE ; CAS No. : 67-64-1
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Acetone / Urine (U) / End of exposure or end of shift
Limit value : 80 mg/l
Version : 29.03.2019
1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2
Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-methoxy-2-propanol / Urine (U) / End of exposure or end of shift
Limit value : 15 mg/l
Version : 29.03.2019

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

Use protective butyl rubber gloves (0,5 mm). Permeation time of glove material: level \geq 240 min (4h) EN374

Respiratory protection

Suitable respiratory protection apparatus

Respiratory protection necessary at: aerosol or mist formation. Half-face mask (DIN EN 140) Filtering device (full mask or mouthpiece) with filter: A

General information

The usual precautionary measures for the handling of chemicals have to be observed.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Appearance : Liquid
Colour : red
Odour : characteristic

Safety characteristics

Physical state :			Liquid	
Freezing point :			No data available	
Initial boiling point and boiling range :	(1013 hPa) ~		65 °C	
Decomposition temperature :	>		200 °C	
Flash point :	<		5 °C	Brookfield
Auto-ignition temperature :			No data available	
Lower explosion limit :			No data available	
Upper explosion limit :			No data available	
Vapour pressure :	(50 °C) <		1100 hPa	
Density :	(20 °C) ~		0,83 g/cm ³	
Solvent separation test :	(20 °C) <		3 %	
Water solubility :	(20 °C)		No data available	
pH :	~		4,2	
log P O/W :			No data available	
Flow time :	(20 °C) ~		11 s	DIN-cup 4 mm
Odour threshold :			No data available	
Relative vapour density :	(20 °C)		No data available	
Vapourisation rate :			No data available	
Flammable aerosols :		No data available.		
Oxidising liquids :		No data available.		
Explosive properties :		No data available.		

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

None, if handled according to order.

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. In connection with inorganic and organic acids, acid chlorides violent reactions can take place and CO₂ released. Formation of hydrogen by acids, lyes, moisture possible.

10.6 Hazardous decomposition products

No information available.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Parameter : LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : Oral
Species : Rat
Effective dose : 5660 mg/kg
Parameter : LD50 (ACETONE ; CAS No. : 67-64-1)
Exposure route : Oral
Species : Rat
Effective dose : 9750 mg/kg

Acute dermal toxicity

Parameter : LD50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : Dermal
Species : Rabbit
Effective dose : 9999,99 mg/kg
Parameter : LD50 (ACETONE ; CAS No. : 67-64-1)
Exposure route : Dermal
Species : Rabbit
Effective dose : 20000 mg/kg

Acute inhalation toxicity

Parameter : LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : Inhalation
Species : Rat
Effective dose : 27,596 mg/l
Exposure time : 6 h
Parameter : LC50 (ACETONE ; CAS No. : 67-64-1)
Exposure route : Inhalation
Species : Rat
Effective dose : ~ 76 mg/l
Exposure time : 4 h

Practical experience/human evidence

Slight narcotic effect. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

Corrosion

Skin corrosion/irritation

Parameter : Skin corrosion/irritation (ETHANOL ; CAS No. : 64-17-5)
Result : Not an irritant
Parameter : Skin corrosion/irritation (ACETONE ; CAS No. : 67-64-1)
Species : Guinea pig
Result : Not an irritant
Parameter : Skin corrosion/irritation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Rabbit
Result : Not an irritant

Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation (ETHANOL ; CAS No. : 64-17-5)
Result : Strongly irritant
Parameter : Serious eye damage/eye irritation (ACETONE ; CAS No. : 67-64-1)
Species : Rabbit
Result : Irritating to eyes
Method : OECD 405

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Parameter : Serious eye damage/eye irritation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Rabbit
Result : Very minor single cell staining (0,5)

Respiratory or skin sensitisation

Skin sensitisation

Parameter : Skin sensitisation (ETHANOL ; CAS No. : 64-17-5)
Result : Not sensitising.
Parameter : Skin sensitisation (ACETONE ; CAS No. : 67-64-1)
Species : Guinea pig
Result : Not sensitising.
Method : OECD 406
Parameter : Skin sensitisation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Guinea pig
Result : Not sensitising.

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter : NOAEL(C) (ACETONE ; CAS No. : 67-64-1)
Exposure route : Oral
Species : Rat
Effective dose : 900 mg/kg dw
Exposure time : 90 day(s)

Chronic inhalation toxicity

Parameter : NOAEC (ACETONE ; CAS No. : 67-64-1)
Exposure route : Inhalation
Species : Rat
Effective dose : 22500 mg/m³

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : Carcinogenicity (ETHANOL ; CAS No. : 64-17-5)
Exposure route : Carcinogenicity
Result : Negative.
Parameter : Carcinogenicity (ACETONE ; CAS No. : 67-64-1)
Exposure route : Dermal
Species : Mouse
Result : Negative.
Parameter : Carcinogenicity (ACETONE ; CAS No. : 67-64-1)
Exposure route : Carcinogenicity
Result : Negative.
Parameter : Carcinogenicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : Carcinogenicity
Result : Negative.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : In vitro mutagenicity (ETHANOL ; CAS No. : 64-17-5)
Exposure route : In vitro mutagenicity
Result : Negative.
Parameter : Gene-mutations microorganisms (ACETONE ; CAS No. : 67-64-1)
Exposure route : In vitro mutagenicity
Species : Escherichia coli
Result : Ames test negative.
Method : OECD 471 (Ames test)
Parameter : In vitro mutagenicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Exposure route : In vitro mutagenicity

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Result : Negative.

Genotoxicity

Parameter : Genotoxicity (ACETONE ; CAS No. : 67-64-1)

Exposure route : Genotoxicity

Species : Mammalian cells (with metabolic activation)

Result : Negative.

Method : OECD 476

Parameter : Genotoxicity (ACETONE ; CAS No. : 67-64-1)

Exposure route : Genotoxicity

Result : Negative.

Method : OECD 473

Parameter : Genotoxicity (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)

Exposure route : Genotoxicity

Result : Negative.

In vivo mutagenicity

Parameter : In vivo mutagenicity (ACETONE ; CAS No. : 67-64-1)

Exposure route : In vivo mutagenicity

Species : Mouse

Result : Negative.

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : One generation reproduction toxicity test (ETHANOL ; CAS No. : 64-17-5)

Exposure route : One generation reproduction toxicity test

Result : Negative.

Parameter : One generation reproduction toxicity test (ACETONE ; CAS No. : 67-64-1)

Exposure route : One generation reproduction toxicity test

Species : Rat

Result : Negative.

Method : OECD 414

Parameter : One generation reproduction toxicity test (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)

Exposure route : One generation reproduction toxicity test

Result : Negative.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)

Species : Acute (short-term) fish toxicity

Effective dose : 11000 mg/l

Exposure time : 96 h

Parameter : LC50 (ACETONE ; CAS No. : 67-64-1)

Species : Oncorhynchus mykiss (Rainbow trout)

Effective dose : 5540 mg/l

Exposure time : 96 h

Parameter : LC50 (ACETONE ; CAS No. : 67-64-1)

Species : Alburnus alburnus (alburnum)

Effective dose : 11000 mg/l

Exposure time : 96 h

Parameter : LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)

Species : Leuciscus idus (golden orfe)

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Effective dose : 6812 mg/l
Exposure time : 96 h
Evaluation : Harmless to fish up to the concentration tested.
Parameter : LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Pimephales promelas (fathead minnow)
Effective dose : 20800 mg/l
Exposure time : 96 h
Evaluation : Harmless to fish up to the concentration tested.
Parameter : LC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : => 1000 mg/l
Exposure time : 96 h
Evaluation : Harmless to fish up to the concentration tested.

Acute (short-term) toxicity to crustacea

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Daphnia magna (Big water flea)
Effective dose : 9950 mg/l
Exposure time : 48 h
Parameter : LC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Daphnia magna (Big water flea)
Effective dose : 9280 mg/l
Exposure time : 48 h
Parameter : LC50 (ACETONE ; CAS No. : 67-64-1)
Species : Daphnia magna (Big water flea)
Effective dose : 8800 mg/l
Exposure time : 48 h
Parameter : EC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Daphnia magna (Big water flea)
Effective dose : 23300 mg/l
Exposure time : 48 h
Evaluation : Harmless to daphnia up to the tested concentration.

Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Chlorella vulgaris
Effective dose : 275 mg/l
Exposure time : 3 h
Evaluation : Harmless to algae up to the concentration tested.
Method : OECD 201
Parameter : ErC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Pseudokirchneriella subcapitata
Effective dose : > 1000 mg/l
Exposure time : 7 day(s)
Evaluation : Harmless to algae up to the concentration tested.

Chronic (long-term) algae toxicity

Parameter : EC10 (ETHANOL ; CAS No. : 64-17-5)
Species : Chlorella vulgaris
Effective dose : 11,5 mg/l
Exposure time : 3 h
Evaluation : Chronic (long-term) algae toxicity
Method : OECD 201
Parameter : NOEC (ACETONE ; CAS No. : 67-64-1)
Species : Acute (short-term) algae toxicity
Effective dose : 430 mg/l
Exposure time : 96 h

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Toxicity to microorganisms

Parameter : EC50 (ETHANOL ; CAS No. : 64-17-5)
Species : Bacteria toxicity
Effective dose : 5800 mg/l
Exposure time : 4 h
Parameter : Bacteria toxicity (ACETONE ; CAS No. : 67-64-1)
Species : Bacteria toxicity
Effective dose : 1000 mg/l
Method : OECD 209
Parameter : EC50 (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Species : Bacteria toxicity
Effective dose : 1000 mg/l
Exposure time : 3 h
Evaluation : Bacteria toxicity

Sewage treatment plant

Parameter : Effects in sewage plants (ACETONE ; CAS No. : 67-64-1)
Inoculum : Activated sludge
Effective dose : 1000 mg/l
Exposure time : 0,5 h
Method : OECD 209

12.2 Persistence and degradability

In case of appropriate conduction into adapted biological purification plants no disturbances have to be expected.

Abiotic degradation

Abiotic degradation (Water)

Hydrolysis

Parameter : Hydrolysis (ACETONE ; CAS No. : 67-64-1)
Species : Hydrolysis
Evaluation : Not persistent.

Biodegradation

Parameter : Biodegradation (ETHANOL ; CAS No. : 64-17-5)
Inoculum : Degree of elimination
Degradation rate : 84 %
Test duration : 20 h
Evaluation : Readily biodegradable (according to OECD criteria).
Parameter : Biodegradation (ACETONE ; CAS No. : 67-64-1)
Inoculum : Degree of elimination
Degradation rate : 91 %
Test duration : 28 day(s)
Method : OECD 301B
Parameter : BOD (% of ThOD) (ACETONE ; CAS No. : 67-64-1)
Inoculum : Biodegradation
Degradation rate : 1900 mg/g Kr
Test duration : 5 day(s)
Parameter : COD-decrease (ACETONE ; CAS No. : 67-64-1)
Inoculum : Biodegradation
Degradation rate : 2100 mg/g Kr
Parameter : Biodegradation (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Inoculum : Degree of elimination
Degradation rate : 96 %
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301E

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (ACETONE ; CAS No. : 67-64-1)

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Value : Bioconcentration factor (BCF)
< 10
Parameter : Bioconcentration factor (BCF) (1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2)
Bioconcentration factor (BCF)
Value : < 100
No indication of bioaccumulation potential.

12.4 Mobility in soil

Very high mobility in soil with a negligible tendency to leave the sediment.

Adsorption

Parameter : Log KOW (ACETONE ; CAS No. : 67-64-1)
Effective dose : -0,24

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Do not empty into waters or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose according to legislation.

Directive 2008/98/EC (Waste Framework Directive)

After intended use

Waste codes/waste designations according to EWC/AVV

- 080111

Additional information

Contaminated packaging should be residue-free emptying. They can then be recycled after appropriate cleaning (Waste code 080112 contains no organic solvents). Contaminated packaging should be disposed of like the product. (Waste code 150110)

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT RELATED MATERIAL

Sea transport (IMDG)

PAINT RELATED MATERIAL

Air transport (ICAO-TI / IATA-DGR)

PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 33
Tunnel restriction code : D/E
Special provisions : 640D · LQ 5 I · E 2

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Hazard label(s) : 3
Sea transport (IMDG)
Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 51 · E 2
Hazard label(s) : 3
Air transport (ICAO-TI / IATA-DGR)
Class(es) : 3
Special provisions : E 2
Hazard label(s) : 3

14.4 Packing group

II

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40

National regulations

Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

03. Hazardous ingredients

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

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

See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (Number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

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16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
