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

Fatty acid methyl ester mixture ROTICHROM® ME 17



article number: **8666** Version: **1.0 en** date of compilation: 2021-09-14

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

Alternative name(s)

not relevant (mixture)

FAME

ME 17 8666

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

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1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data :Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

| Name | Street | Postal code/city | Telephone | Website |
|--|-----------|----------------------|--------------|---------|
| National Poisons Information Service City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 | |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|-----------------------------------|---------------|---------------------------|---------------------|
| 3.10 | Acute toxicity (oral) | 4 | Acute Tox. 4 | H302 |
| 3.1I | Acute toxicity (inhal.) | 3 | Acute Tox. 3 | H331 |
| 3.2 | Skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | Serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |

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| Section | Hazard class | Cat- egory | Hazard class and category | Hazard statement |
|---------|--|---------------|---------------------------|---------------------|
| 3.6 | Carcinogenicity | 2 | Carc. 2 | H351 |
| 3.7 | Reproductive toxicity | 2 | Repr. 2 | H361d |
| 3.9 | Specific target organ toxicity - repeated exposure | 1 | STOT RE 1 | H372 |

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

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

Signal word Danger

Pictograms

GHS06, GHS08



Hazard statements

| H302 | Harmful if swallowed |
|-------|--|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H351 | Suspected of causing cancer |
| H361d | Suspected of damaging the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |

Precautionary statements

Precautionary statements - prevention

| P202 | Do not handle until all safety precautions have been read and understood |
|------|--|
| P260 | Do not breathe mist/vapours/spray |
| P270 | Do not eat, drink or smoke when using this product |
| P280 | Wear protective gloves/eye protection |

Precautionary statements - response

| P302+P352 | IF ON SKIN: Wash with plenty of water |
|-----------|---|
| P308+P313 | IF exposed or concerned: Get medical advice/attention |

For professional users only

Hazardous ingredients for labelling:

Trichloromethane

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



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| H331 | Toxic if inhaled. |
|-----------|---|
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe mist/vapours/spray. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/eye protection. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| contains: | Trichloromethane |

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of sub- stance | Identifier | Wt% | Classification acc. to GHS | Pictograms | Notes |
|------------------------|---|------------|--|------------|-----------------------------|
| Trichloromethane | CAS No 67-66-3 EC No 200-663-8 Index No 602-006-00-4 REACH Reg. No 01-2119486657- 20-xxxx | 80 - < 100 | Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Carc. 2 / H351 Repr. 2 / H361d STOT RE 1 / H372 | | GHS-HC IARC: 2B IOELV |

Notes

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)
 IARC: IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

2B: IOELV: Substance with a community indicative occupational exposure limit value

| Name of sub- stance | Identifier | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|------------------------|---|-----------------------|-----------|---|---------------------------------|
| Trichlorometh- ane | CAS No 67-66-3 EC No 200-663-8 Index No 602-006-00-4 | - | - | 908 ^{mg} / _{kg} 3 ^{mg} / _l /4h | oral inhalation: va- pour |

For full text of abbreviations: see SECTION 16



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SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Self-protection of the first aider.

Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth with water (only if the person is conscious). In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Nausea, Vomiting, Dizziness, Headache, Cough, Vertigo, Spasms, Dyspnoea, Unconsciousness

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

None.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen chloride (HCl), Hydrogen halides (HX)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Do not breathe vapour/spray. Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use extractor hood (laboratory). Avoid exposure. When not in use, keep containers tightly closed.

Advice on general occupational hygiene

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool place.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Store locked up.

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

Specific designs for storage rooms or vessels

Recommended storage temperature: 2 - 8 °C

7.3 Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Cou ntr y | Name of agent | CAS No | Identi- fier | TW A [pp m] | TWA [mg/ m³] | STE L [pp m] | STEL [mg/ m³] | Ceil ing- C [pp m] | Ceil- ing-C [mg/ m³] | Nota- tion | Source |
|-----------------|---------------|---------|-----------------|----------------------|--------------------|-----------------------|---------------------|--------------------------------|-------------------------------|---------------|----------------|
| EU | chloroform | 67-66-3 | IOELV | 2 | 10 | | | | | | 2000/39/ EC |
| GB | chloroform | 67-66-3 | WEL | 2 | 9,9 | | | | | | EH40/ 2005 |

Notation

STEL TWA

Г

Ceiling-C

Ceiling value is a limit value above which exposure should not occur Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| Relevant DNELs of components of the mixture | | | | | | | | | |
|---|---------|---------------|-----------------------|--|-------------------|-------------------------------|--|--|--|
| Name of sub- stance | CAS No | End- point | Threshol d level | Protection goal, route of exposure | Used in | Exposure time | | | |
| Trichloromethane | 67-66-3 | DNEL | 2,5 mg/m ³ | human, inhalat- ory | worker (industry) | chronic - systemic effects | | | |
| Trichloromethane | 67-66-3 | DNEL | 333 mg/m ³ | human, inhalat- ory | worker (industry) | acute - systemic effects | | | |
| Trichloromethane | 67-66-3 | DNEL | 2,5 mg/m ³ | human, inhalat- ory | worker (industry) | chronic - local ef- fects | | | |
| Trichloromethane | 67-66-3 | DNEL | 0,94 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects | | | |

| Relevant PNECs of components of the mixture | | | | | | | | | | |
|---|---------|---------------|------------------------------------|----------------------------|---------------------------------|---------------------------------|--|--|--|--|
| Name of sub- stance | CAS No | End- point | Threshol d level | Organism | Environmental compartment | Exposure time | | | | |
| Trichloromethane | 67-66-3 | PNEC | 0,146 ^{mg} / _l | aquatic organ- isms | freshwater | short-term (single instance) | | | | |
| Trichloromethane | 67-66-3 | PNEC | 0,015 ^{mg} / _l | aquatic organ- isms | marine water | short-term (single instance) | | | | |
| Trichloromethane | 67-66-3 | PNEC | 0,048 ^{mg} / _l | aquatic organ- isms | sewage treatment plant (STP) | short-term (single instance) | | | | |
| Trichloromethane | 67-66-3 | PNEC | 0,45 ^{mg} / _{kg} | aquatic organ- isms | freshwater sedi- ment | short-term (single instance) | | | | |
| Trichloromethane | 67-66-3 | PNEC | 0,09 ^{mg} / _{kg} | aquatic organ- isms | marine sediment | short-term (single instance) | | | | |
| Trichloromethane | 67-66-3 | PNEC | 0,56 ^{mg} / _{kg} | terrestrial organ- isms | soil | short-term (single instance) | | | | |

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8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

FKM (fluoro rubber)

• material thickness

≥0,4 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.



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SECTION 9: Physical and chemical properties

| 9.1 | Information on basic physical and chemical pro | perties |
|-----|--|---|
| | Physical state | liquid |
| | Colour | colourless |
| | Odour | characteristic |
| | Melting point/freezing point | -63 °C data apply to the main component |
| | Boiling point or initial boiling point and boiling range | 61 °C at 1.013 hPa data apply to the main com- ponent |
| | Flammability | this material is combustible, but will not ignite readily |
| | Lower and upper explosion limit | not determined |
| | Flash point | not determined |
| | Auto-ignition temperature | not determined |
| | Decomposition temperature | not relevant |
| | pH (value) | not determined |
| | Kinematic viscosity | not determined |
| | Solubility(ies) | |
| | Water solubility | not determined |
| | Partition coefficient | |
| | Partition coefficient n-octanol/water (log value): | this information is not available |
| | Vapour pressure | 211 hPa at 20 °C data apply to the main component |
| | Density | 1,48 ^g / _{cm³} at 20 °C data apply to the main com- ponent |
| | Relative vapour density | information on this property is not available |
| | Particle characteristics | not relevant (liquid) |
| | Other safety parameters | |
| | Oxidising properties | none |
| 9.2 | Other information | |
| | Information with regard to physical hazard classes: | hazard classes acc. to GHS (physical hazards): not relevant |
| | Other safety characteristics: | There is no additional information. |

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SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Acetone, Alkali metals, Alkaline earth metal, Metal powder, Mineral acids, Nitro compound, Peroxides,

=> Explosive properties

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

plastic and rubber, Light metals

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Harmful if swallowed. Toxic if inhaled.

| Name of substance | CAS No | Exposure route | ATE |
|-------------------|---------|--------------------|------------------------------------|
| Trichloromethane | 67-66-3 | oral | 908 ^{mg} / _{kg} |
| Trichloromethane | 67-66-3 | inhalation: vapour | 3 ^{mg} / _l /4h |

| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
|-------------------|---------|-------------------|----------|-----------------------------------|---------|
| Trichloromethane | 67-66-3 | oral | LD50 | 908 ^{mg} / _{kg} | rat |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

vomiting, nausea

• If in eyes

Causes serious eye irritation

• If inhaled

vertigo, dizziness, cough, headache

• If on skin

causes skin irritation

• Other information

Other adverse effects: Spasms, Dyspnoea, Unconsciousness, Loss of righting reflex, and ataxia

11.2 Endocrine disrupting properties

None of the ingredients are listed.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|---------|----------|------------------------------------|-----------------------|------------------|
| Name of sub- stance | CAS No | Endpoint | Value | Species | Exposure time |
| Trichloromethane | 67-66-3 | EC50 | 152,5 ^{mg} / _l | aquatic invertebrates | 48 h |
| Trichloromethane | 67-66-3 | ErC50 | 13,3 ^{mg} / _l | algae | 72 h |

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| Aquatic toxicity (chronic) of components of the mixture | | | | | | |
|---|---------|----------|-----------------------------------|----------------|------------------|--|
| Name of sub- stance | CAS No | Endpoint | Value | Species | Exposure time | |
| Trichloromethane | 67-66-3 | EC50 | 0,48 ^{mg} / _l | microorganisms | 24 h | |

Biodegradation

Data are not available.

12.2 Process of degradability

| Degradability of components of the mixture | | | | | | |
|--|---------|----------------|-----------------------|------|--------|--------|
| Name of substance | CAS No | Process | Degrada- tion rate | Time | Method | Source |
| Trichlorometh- ane | 67-66-3 | biotic/abiotic | 0 % | 14 d | | |

12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture | | | | |
|--|---------|-----|--------------|----------|
| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
| Trichloromethane | 67-66-3 | | 1,97 (25 °C) | |

12.4 Mobility in soil

Data are not available.

- **12.5 Results of PBT and vPvB assessment** Data are not available.
- 12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

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13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number or ID number

| 1-1.1 | | |
|-------|----------------------------|--|
| | ADR/RID/ADN | UN 1888 |
| | IMDG-Code | UN 1888 |
| | ICAO-TI | UN 1888 |
| 14.2 | UN proper shipping name | |
| | ADR/RID/ADN | CHLOROFORM |
| | IMDG-Code | CHLOROFORM |
| | ICAO-TI | Chloroform |
| 14.3 | Transport hazard class(es) | |
| | ADR/RID/ADN | 6.1 |
| | IMDG-Code | 6.1 |
| | ICAO-TI | 6.1 |
| 14.4 | Packing group | |
| | ADR/RID/ADN | III |
| | IMDG-Code | III |
| | ICAO-TI | III |
| 14.5 | Environmental hazards | non-environmentally hazardous acc. to the dan- gerous goods regulations |
| | | |

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

| Proper shipping name | CHLOROFORM |
|---------------------------------------|-----------------------------------|
| Particulars in the transport document | UN1888, CHLOROFORM, 6.1, III, (E) |
| Classification code | T1 |
| Danger label(s) | 6.1 |
| | |

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| Special provisions (SP)802(ADN)Excepted quantities (EQ)E1Limited quantities (LQ)5Transport category (TC)2Tunnel restriction code (TRC)EHazard identification No60Emergency Action CodeZZInternational Maritime Dangerous Goods CodeVDI Nass, CHLOROFORM, 6.1, IIIProper shipping nameCHLOROFORMParticulars in the shipper's declarationUN1888, CHLOROFORM, 6.1, IIIMarine pollutant-Danger label(s)6.1Special provisions (SP)-Excepted quantities (EQ)E1Limited quantities (EQ)5EmsF-A, S-AStowage categoryAProper shipping nameChloroformProper shipping name10 - Liquid halogenated hydrocarbonsProper shipping hameE.A, S-ASpecial provisions (SP)5Limited quantities (EQ)AProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroform, 6.1, IIIProper shipping nameChloroformProper shipping nameChloroform< | cie | | |
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| International Maritime Dangerous Goods Code (IMDG) - Additional informationProper shipping nameCHLOROFORMParticulars in the shipper's declarationUN1888, CHLOROFORM, 6.1, IIIMarine pollutant-Danger label(s)6.1Image of the shipper's declarationSpecial provisions (SP)Special provisions (SP)-Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICAD-TA/DGR) - Additional informationProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformProteulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Imager label(s)EtlExcepted quantities (EQ)Etl | | Hazard identification No | 60 |
| Proper shipping nameCHLOROFORMParticulars in the shipper's declarationUN1888, CHLOROFORM, 6.1, IIIMarine pollutant-Danger label(s)6.1Image and provisions (SP)-Special provisions (SP)-Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmsF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsProper shipping nameChloroformProper shipping nameChloroformProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIImage alabel(s)6.1Image alabel(s)Excepted quantities (EQ)Excepted quantities (EQ)E1 | | Emergency Action Code | 2Z |
| Particulars in the shipper's declarationUN1888, CHLOROFORM, 6.1, IIIMarine pollutant-Danger label(s)6.1Image: Danger label(s)6.1Image: Danger label(s)-Special provisions (SP)-Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICAV-TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Image: Label(s)E1 | | International Maritime Dangerous Goods Code (| IMDG) - Additional information |
| Marine pollutant-Danger label(s)6.1 $\widehat{\}$ - $\widehat{\}$ - $\widehat{\}$ -Special provisions (SP)-Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICAU-TACIDER) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1 $\widehat{\}$ $\widehat{\}$ Excepted quantities (EQ)E1 | | Proper shipping name | CHLOROFORM |
| Danger label(s)6.1Danger label(s)6.1Danger label(s)SSpecial provisions (SP)-Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICA> | | Particulars in the shipper's declaration | UN1888, CHLOROFORM, 6.1, III |
| Special provisions (SP)-Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICAV-TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Stowage quantities (EQ)E1 | | Marine pollutant | - |
| Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICA>>>TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Excepted quantities (EQ)E1 | | Danger label(s) | 6.1 |
| Excepted quantities (EQ)E1Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICA>>>TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Excepted quantities (EQ)E1 | | | |
| Limited quantities (LQ)5 LEmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICA>- TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1StowExcepted quantities (EQ)Excepted quantities (EQ)E1 | | Special provisions (SP) | - |
| EmSF-A, S-AStowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICAO-TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Stopper declarationExcepted quantities (EQ)Excepted quantities (EQ)E1 | | Excepted quantities (EQ) | E1 |
| Stowage categoryASegregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICA>+TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Stopped quantities (EQ)E1 | | Limited quantities (LQ) | 5 L |
| Segregation group10 - Liquid halogenated hydrocarbonsInternational Civil Aviation Organization (ICAO-TA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Second quantities (EQ)E1 | | EmS | F-A, S-A |
| International Civil Aviation Organization (ICAO-IATA/DGR) - Additional informationProper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Streepted quantities (EQ)E1 | | Stowage category | A |
| Proper shipping nameChloroformParticulars in the shipper's declarationUN1888, Chloroform, 6.1, IIIDanger label(s)6.1Image: Second quantities (EQ)E1 | | Segregation group | 10 - Liquid halogenated hydrocarbons |
| Particulars in the shipper's declaration UN1888, Chloroform, 6.1, III Danger label(s) 6.1 Image: Second quantities (EQ) E1 | | International Civil Aviation Organization (ICAO- | ATA/DGR) - Additional information |
| Danger label(s) 6.1 Image: Second system Excepted quantities (EQ) | | Proper shipping name | Chloroform |
| Excepted quantities (EQ) E1 | | Particulars in the shipper's declaration | UN1888, Chloroform, 6.1, III |
| | | Danger label(s) | 6.1 |
| | | | |
| Limited quantities (LQ) 2 L | | Excepted quantities (EQ) | E1 |
| | | Limited quantities (LQ) | 2 L |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

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



article number: 8666

Restrictions according to REACH, Annex XVII

| Dangerous substances with restrictions (REACH, Annex XVII) | | | | |
|--|--|---------|-------------|----|
| Name of substance | Name acc. to inventory | CAS No | Restriction | No |
| Fatty acid methyl ester mixture | this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC | | R3 | 3 |
| Trichloromethane | chloroform | 67-66-3 | R32-38 | 32 |
| Trichloromethane | substances in tattoo inks and perman- ent make-up | | R75 | 75 |

Legend

R3 1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in orna-mental lamps and ashtrays,

- tricks and jokes,

games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
2. Articles not complying with paragraph 1 shall not be placed on the market.
3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they

can be used as fuel in decorative oil lamps for supply to the general public, and
 present an aspiration hazard and are labelled with H304.
 Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following require-

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil

or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';
R32-38

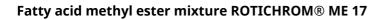
as substances

- as constituents of other substances, or in mixtures in concentrations equal to or greater than 0,1 % by weight, where the substance or mixture is intended for supply to the general public and/or is intended for diffusive applica-

 Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures containing them in concentrations equal to or greater than 0,1 % by weight is visibly, legibly and indelibly marked as follows

(For use in industrial installations only'.
By way of derogation this provision shall not apply to:
(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
(b) cosmetic products as defined by Directive 76/768/EEC.







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| R75 | Shall not be placed on the market in mixtures for use for tattooing purposes, and mixtures containing any such stances shall not be used for tattooing purposes, after 4 January 2022 if the substance or substances in guestion is |
|-----|---|
| | are present in the following circumstances: |
| | (a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogen categor |
| | 1Á, 1B or 2, or germ cell mutagen category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,00005 % by weight; |
| | (b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as reproductive toxica |
| | category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by |
| | (c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin sensitiser cat- |
| | egory 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0,001 % by weight; |
| | (d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as skin corrosive cat- egory 1, 1A, 1B or 1C or skin irritant category 2, or as serious eye damage category 1 or eye irritant category 2, the substance is present in the mixture in a concentration equal to or greater than: (i) 0,1 % by weight, if the substance is used solely as a pH regulator; |
| | (ii) 0,01 % by weight, in all other cases; |
| | (e) in the case of a substance listed in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the |
| | mixture in a concentration equal to or greater than 0,00005 % by weight; (f) in the case of a substance for which a condition of one or more of the following kinds is specified in column g |
| | (Product type, Body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the |
| | mixture in a concentration equal to or greater than 0,00005 % by weight: (i) "Rinse-off products"; |
| | (ii) "Not to be used in products applied on mucous membranes"; |
| | (iií) "Not to be used in eye products"; (g) in the case of a substance for which a condition is specified in column h (Maximum concentration in ready for u |
| | preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present |
| | the mixture in a concentration, or in some other way, that does not accord with the condition specified in that colu |
| | (h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concern tration equal to or greater than the concentration limit specified for that substance in that Appendix. |
| | 2. For the purposes of this entry use of a mixture "for tattooing purposes" means injection or introduction of the m |
| | ture into a person's skin, mucous membrane or eyeball, by any process or procedure (including procedures com- monly referred to as permanent make-up, cosmetic tattooing, micro-blading and micro-pigmentation), with the ai |
| | making a mark or design on his or her body. |
| | 3. If a substance not listed in Appendix 13 falls within more than one of points (a) to (g) of paragraph 1, the strictes |
| | concentration limit laid down in the points in question shall apply to that substance. If a substance listed in Appen 13 also falls within one or more of points (a) to (g) of paragraph 1, the concentration limit laid down in point (h) of |
| | paragraph 1 shall apply to that substance. |
| | 4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023: (a) Pigment Blue 15:3 (CI 74160, EC No 205-685-1, CAS No 147-14-8); |
| | (b) Pigment Green 7 (CI 74260, EC No 215-524-7, CAS No 1328-53-6). |
| | 5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or re-classify a |
| | stance such that the substance then becomes caught by point (a), (b), (c) or (d) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the date of a |
| | plication of that new or revised classification is after the date referred to in paragraph 1 or, as the case may be, pa |
| | graph 4 of this entry, that amendment shall, for the purposes of applying this entry to that substance, be treated a taking effect on the date of application of that new or revised classification. |
| | 6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to list or change the lis |
| | of a substance such that the substance then becomes caught by point (e), (f) or (g) of paragraph 1 of this entry, or such that it then falls within a different one of those points from the one within which it fell previously, and the |
| | amendment takes effect after the date referred to in paragraph 1 or, as the case may be, paragraph 4 of this entry |
| | that amendment shall, for the purposes of applying this entry to that substance, be treated as taking effect from t |
| | date falling 18 months after entry into force of the act by which that amendment was made. 7. Suppliers placing a mixture on the market for use for tattooing purposes shall ensure that, after 4 January 2022, |
| | mixture is marked with the following information: |
| | (a) the statement "Mixture for use in tattoos or permanent make-up"; (b) a reference number to uniquely identify the batch; |
| | (c) the list of ingredients in accordance with the nomenclature established in the glossary of common ingredient |
| | names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common ingredient name, th IUPAC name. In the absence of a common ingredient name or IUPAC name, the CAS and EC number. Ingredients s |
| | be listed in descending order by weight or volume of the ingredients at the time of formulation. "Ingredient" mear |
| | any substance added during the process of formulation and present in the mixture for use for tattooing purposes |
| | purities shall not be regarded as ingredients. If the name of a substance, used as ingredient within the meaning o this entry, is already required to be stated on the label in accordance with Regulation (EC) No 1272/2008, that ingre |
| | ent does not need to be marked in accordance with this Regulation: |
| | (d) the additional statement "pH regulator" for substances falling under point (d)(i) of paragraph 1; (e) the statement "Contains nickel. Can cause allergic reactions." if the mixture contains nickel below the concentra |
| | tion limit specified in Appendix 13; |
| | (f) the statement "Contains chromium (VI). Can cause allergic reactions." if the mixture contains chromium (VI) belo |
| | the concentration limit specified in Appendix 13; (g) safety instructions for use insofar as they are not already required to be stated on the label by Regulation (EC) l |
| | 1272/2008. The information shall be clearly visible, easily legible and marked in a way that is indelible. |
| | The information shall be written in the official language(s) of the Member State(s) where the mixture is placed on t |
| | market, unless the Member State(s) concerned provide(s) otherwise. Where necessary because of the size of the package, the information listed in the first subparagraph, except for po |
| | (a), shall be included instead in the instructions for use. |
| | Before using a mixture for tattooing purposes, the person using the mixture shall provide the person undergoing procedure with the information marked on the package or included in the instructions for use pursuant to this par |
| | procedure with the information marked on the package or included in the instructions for use pursuant to this par graph. |
| | 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used |
| | |

8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.



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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

None of the ingredients are listed. (Or Concentration of the substance in a mixture: <0.1 % Mass concentration)

Seveso Directive

| 2012/ | 2012/18/EU (Seveso III) | | | | |
|-------|---------------------------------------|---|-----|-------|--|
| Νο | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements | | Notes | |
| H2 | acute toxic (cat. 2 + cat. 3, inhal.) | 50 | 200 | 41) | |

Notation

41) - Category 2, all exposure routes

- category 3, inhalation exposure route

Deco-Paint Directive

| VOC content | 92 % , 1.362 ^g / _l |
|-------------|---|
| | |

Industrial Emissions Directive (IED)

| VOC content | 90 % |
|-------------|-----------------------------------|
| VOC content | 1.332 ^g / _l |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

| Pollutant release and transfer registers (PRTR) | | | |
|--|---------|--|-----|
| Name of substance CAS No Remarks Threshold for release (kg/year) | | Threshold for releases to air (kg/year) | |
| Trichloromethane | 67-66-3 | | 500 |

Water Framework Directive (WFD)

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

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| t of pollutants (WFD) | | | | |
|-----------------------|--|---------|-----------|---------|
| Name of substance | Name acc. to inventory | CAS No | Listed in | Remarks |
| Trichloromethane | trichloromethane (chloroform) | 67-66-3 | B) | |
| Trichloromethane | trichloromethane | 67-66-3 | C) | |
| Trichloromethane | Organohalogen compounds and substances which may form such compounds in the aquatic envir- onment | | A) | |
| Trichloromethane | Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment | | A) | |

Legend

A) B) C)

Indicative list of the main pollutants List of priority substances in the field of water policy Environmental Quality Standards for Priority Substances and certain other pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

chemicals subject to the international prior informed consent (PIC) procedure (the 'PIC procedure').

| Name of substance | Name acc. to inventory | CAS No | Category / subcategory | Use limita- tion |
|-------------------|------------------------|---------|---------------------------|---------------------|
| Trichloromethane | chloroform | 67-66-3 | i(2) | b |

Legend

b i(2)

Use limitation: ban (for the sub-category or sub-categories concerned) according to Union legislation Sub-category: i(2) - industrial chemical for public use

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

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

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| Country | Inventory | Status |
|---------|------------|--------------------------------|
| AU | AICS | not all ingredients are listed |
| CA | DSL | not all ingredients are listed |
| CA | NDSL | not all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| JP | CSCL-ENCS | all ingredients are listed |
| KR | KECI | all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | not all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | all ingredients are listed |
| US | TSCA | not all ingredients are listed |

Legend

| AICS | Australian Inventory of Chemical Substances |
|------------|---|
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NDSL | Non-domestic Substances List (NDSL) |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |
| | |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---------------------------|---|
| 2000/39/EC | Commission Directive establishing a first list of indicative occupational exposure limit values in imple- mentation of Council Directive 98/24/EC |
| Acute Tox. Acute toxicity | |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road) |
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN) |
| ATE | Acute Toxicity Estimate |

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

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| Abbr. | Descriptions of used abbreviations | | |
|-------------------------------|---|--|--|
| BCF | Bioconcentration factor | | |
| BOD Biochemical Oxygen Demand | | | |
| Carc. Carcinogenicity | | | |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances | | |
| Ceiling-C | Ceiling value | | |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures | | |
| COD | Chemical oxygen demand | | |
| DGR | Dangerous Goods Regulations (see IATA/DGR) | | |
| DNEL | Derived No-Effect Level | | |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval | | |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an ident fier of substances commercially available within the EU (European Union) | | |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/) | | |
| EINECS | European Inventory of Existing Commercial Chemical Substances | | |
| ELINCS | CS European List of Notified Chemical Substances | | |
| EmS | S Emergency Schedule | | |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in eith growth (EbC50) or growth rate (ErC50) relative to the control | | |
| Eye Dam. | Seriously damaging to the eye | | |
| Eye Irrit. | Irritant to the eye | | |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na tions | | |
| IARC | International Agency for Research on Cancer | | |
| IATA | International Air Transport Association | | |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) | | |
| ICAO | International Civil Aviation Organization | | |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air | | |
| IMDG | International Maritime Dangerous Goods Code | | |
| IMDG-Code | International Maritime Dangerous Goods Code | | |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 | | |
| IOELV | Indicative occupational exposure limit value | | |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval | | |
| log KOW | n-Octanol/water | | |
| NLP | No-Longer Polymer | | |
| PBT | Persistent, Bioaccumulative and Toxic | | |

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

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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Repr. | Reproductive toxicity |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| SVHC | Substance of Very High Concern |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|-------|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.