

FOSSER Antifreeze FA 040

Revision date: 08.11.2022

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

1.1. Product identifier

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

Use of the substance/mixture engine coolant

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Duran Lubricants & Chemicals GmbH Street: Rodderheide 3-7 Place: D-33824 Werther Telephone: +49 (0)5203-901510 Telefax: +49 (0)5203-901515 E-Mail: info@duran-oil.com Internet: www.fosser.de

1.4. Emergency Telephone number: Giftinformationszentrum Nord (Göttingen) - +49(0)551/19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Ethane-1,2-diol Potassium 2-ethylhexanoate

Signal word: Warning

Pictograms:

P260



Hazard statements

| H302 | Harmful if swallowed. |
|------|--|
| H319 | Causes serious eye irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Precautionary statements

Do not breathe dust/fume/gas/mist/vapours/spray.



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| P264 | Wash hands thoroughly after handling. |
|----------------|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P501 | Dispose of contents / container in accordance with official regulations. |
| | |

2.3. Other hazards

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No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | Chemical name | | | | |
|-----------|---|---------------|------------------|-----------|--|--|
| | EC No | Index No | REACH No | | | |
| | GHS Classification | | | | | |
| 107-21-1 | Ethane-1,2-diol | | | | | |
| | 203-473-3 | 603-027-00-1 | 01-2119456816-28 | | | |
| | Acute Tox. 4, STOT RE 2; H302 H | 373 | | | | |
| 3164-85-0 | Potassium 2-ethylhexanoate | | | 1 - < 3 % | | |
| | 221-625-7 | | 01-2119980714-29 | | | |
| | Repr. 2, Skin Irrit. 2, Eye Dam. 1; H361d H315 H318 | | | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity | | |
|-----------|--|---|------------|--|--|
| | Specific Conc. | cific Conc. Limits, M-factors and ATE | | | |
| 107-21-1 | 203-473-3 | Ethane-1,2-diol | 90 - 100 % | | |
| | dermal: LD50 = > 3500 mg/kg; oral: LD50 = 7712 mg/kg | | | | |
| 3164-85-0 | 221-625-7 | 221-625-7 Potassium 2-ethylhexanoate | | | |
| | dermal: LD50 | = > 2000 mg/kg; oral: LD50 = 2043 mg/kg | | | |

Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off contaminated clothing and wash it before reuse. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove person to fresh air and keep comfortable for breathing.

In all cases of doubt, or when symptoms persist, seek medical advice.



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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. When in doubt or if symptoms are observed, get medical advice.

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

May cause respiratory irritation. The following symptoms may occur: Cough, Dizziness, Headache

May be absorbed through the skin. Repeated exposure may cause skin dryness or cracking. Causes serious eye irritation. The following symptoms may occur: erythema (redness) Harmful if swallowed. The following symptoms may occur: Vomiting, Unconsciousness, Nausea

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- alcohol resistant foam
- Extinguishing powder
- Carbon dioxide (CO2)
- Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

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

- In case of fire may be liberated:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO2).
 - Pyrolysis products, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Suppress gases/vapours/mists with water spray jet.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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General advice

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Stop leak if safe to do so. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Always close containers tightly after the removal of product. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use only in well-ventilated areas.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place. Keep only in the original container. Store in a cool dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions

- Explosives

7.3. Specific end use(s)

engine coolant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|----------|-------------------------|-----|-------|-----------|---------------|--------|
| 107-21-1 | Ethane-1,2-diol, vapour | 20 | 52 | | TWA (8 h) | WEL |
| | | 40 | 104 | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|----------------------------|----------------|----------|-------------------------|
| DNEL type | | Exposure route | Effect | Value |
| 107-21-1 | Ethane-1,2-diol | | | |
| Worker DNEL | ., long-term | inhalation | local | 35 mg/m³ |
| Worker DNEL | ., long-term | dermal | systemic | 106 mg/kg bw/day |
| Consumer DN | NEL, long-term | inhalation | local | 7 mg/m³ |
| Consumer DN | NEL, long-term | dermal | systemic | 53 mg/kg bw/day |
| 3164-85-0 | Potassium 2-ethylhexanoate | | | |
| Worker DNEL | ., long-term | inhalation | systemic | 41,98 mg/m ³ |
| Worker DNEL | ., long-term | dermal | systemic | 5,95 mg/kg bw/day |
| Consumer DN | NEL, long-term | inhalation | systemic | 10,35 mg/m ³ |
| Consumer DN | IEL, long-term | dermal | systemic | 2,98 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 2,98 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|-------------|---------------------------------------|-------------|
| Environmen | tal compartment | Value |
| 107-21-1 | Ethane-1,2-diol | |
| Freshwater | | 10 mg/l |
| Freshwater | (intermittent releases) | 10 mg/l |
| Marine wate | r | 1 mg/l |
| Freshwater | sediment | 37 mg/kg |
| Marine sedi | nent | 3,7 mg/kg |
| Micro-organ | isms in sewage treatment plants (STP) | 199,5 mg/l |
| Soil | | 1,53 mg/kg |
| 3164-85-0 | Potassium 2-ethylhexanoate | |
| Freshwater | | 0,36 mg/l |
| Freshwater | (intermittent releases) | 0,493 mg/l |
| Marine wate | r | 0,036 mg/l |
| Freshwater | sediment | 6,37 mg/kg |
| Marine sedi | nent | 0,637 mg/kg |
| Micro-organ | isms in sewage treatment plants (STP) | 71,7 mg/l |
| Soil | | 1,06 mg/kg |



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8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff. Keep away from food, drink and animal feedingstuffs.

Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

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.

Skin protection

Wear suitable protective clothing. EN 14605

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

- Half-face mask (EN 140)
- Filter type: A/P (EN 141)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Odour: odourless pH-Value: Changes in the physical state Melting point/freezing point: Boiling point or initial boiling point and boiling range: | Physical state: Colour: | Liquid violet |
|--|-------------------------------|------------------|
| Changes in the physical state Melting point/freezing point: Boiling point or initial boiling point and | Odour: | odourless |
| Melting point/freezing point: Boiling point or initial boiling point and | ' | |
| Boiling point or initial boiling point and | • • • • | |
| 51 | Melting point/freezing point: | |
| | 51 51 | |

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| Flammability | | |
| Solid/liquid: | not applicable | |
| Gas: | not applicable | |
| Explosive properties The product is not: Explosive. | | |
| Lower explosion limits: | not determined | |
| Upper explosion limits: | not determined | |
| Auto-ignition temperature: | >400 °C | |
| Decomposition temperature: | not determined | |
| Oxidizing properties The product is not: oxidising. | | |
| Vapour pressure: (at 20 °C) | 0,08 hPa | |
| Density (at 20 °C): | 1,12 g/cm³ | |
| Water solubility: | easily soluble | |
| Solubility in other solvents not determined | | |
| Partition coefficient n-octanol/water: | No data available | |
| Viscosity / dynamic: (at 20 °C) | 23,52 mPa·s | |
| Viscosity / kinematic: (at 20 °C) | 21 mm²/s | |
| Relative vapour density: | 2,1 | |
| Evaporation rate: | not determined | |
| 9.2. Other information | | |
| Solid content: | not determined | |
| SECTION 10: Stability and reactivity | | |

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reacts with : Oxidizing agent, Acids

10.4. Conditions to avoid

Avoid: Thermal decomposition Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Safe handling: see section 7

10.5. Incompatible materials

- Materials to avoid:
 - Oxidising agent
 - Strong acid, alkalines

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10.6. Hazardous decomposition products

- Hazardous combustion products:
 - Carbon monoxide (CO)
 - Carbon dioxide (CO2).
 - Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Harmful if swallowed.

ATEmix calculated

ATE (oral) 515,4 mg/kg

| CAS No | Chemical name | Chemical name | | | | | | | |
|-----------|-------------------------|---------------|--------|---------|---------------------|--|--|--|--|
| | Exposure route | Dose | | Species | Source | Method | | | |
| 107-21-1 | Ethane-1,2-diol | | | | | | | | |
| | oral | LD50 mg/kg | 7712 | Rat | | according to BASF-internal standards | | | |
| | dermal | LD50 mg/kg | > 3500 | Mouse | | LD50 derived from developmental toxicity | | | |
| 3164-85-0 | Potassium 2-ethylhexano | ate | | | | | | | |
| | oral | LD50 mg/kg | 2043 | Rat | Study report (1987) | OECD Guideline 401 | | | |
| | dermal | LD50 mg/kg | > 2000 | Rat | Study report (1986) | OECD Guideline 402 | | | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Ethane-1,2-diol)

Aspiration hazard

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

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



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SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | | | | |
|-----------|--------------------------|---------------------|----------|-----------|------------------------------------|--|--|--|--|
| | Aquatic toxicity | Dose | | [h] [d] | Species | Source | Method | | |
| 107-21-1 | Ethane-1,2-diol | | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 72860 | 96 h | Pimephales promelas | Environ. Toxicology and Chemistry, Vol. | EPA 600/4-90/027. U.S. Environmental Pro | | |
| | Acute algae toxicity | ErC50 13000 mg/l | 6500 - | 96 h | Pseudokirchneriella subcapitata | Study report (1982) | other: EPA 600/9-78-018, 1978 | | |
| | Acute crustacea toxicity | EC50 mg/l | > 100 | 48 h | Daphnia magna | Study report (1998) | OECD Guideline 202 | | |
| | Fish toxicity | NOEC mg/l | 15380 | 7 d | Pimephales promelas | Environ. Toxicology and Chemistry, Vol. | other: EPA 600/4-89/001. U.S. Environmen | | |
| | Algae toxicity | NOEC mg/l | > 100 | 8 d | Scenedesmus quadricauda | REACh Registration Dossier | OECD Guideline 201 | | |
| | Crustacea toxicity | NOEC 15000 mg/l | 7500 - | 21 d | Daphnia magna | REACh Registration Dossier | other: ASTM | | |
| 3164-85-0 | Potassium 2-ethylhexano | ate | | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 100 | 96 h | Oryzias latipes | NITE (National Institute of Technology a | OECD Guideline 203 | | |
| | Acute algae toxicity | ErC50 mg/l | 49,3 | 72 h | Desmodesmus subspicatus | Study report (1988) | other: Method: other: German Industrial | | |
| | Acute crustacea toxicity | EC50 | 910 mg/l | 48 h | Daphnia magna | NITE (National Institute of Technology a | OECD Guideline 202 | | |
| | Crustacea toxicity | NOEC | 25 mg/l | 21 d | Daphnia magna | Study report (1997) | OECD Guideline 211 | | |

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | CAS No Chemical name | | | | | | |
|-----------|----------------------------|-----------------|---------|--------|--|--|--|
| 107-21-1 | Ethane-1,2-diol | Ethane-1,2-diol | | | | | |
| BCF | · | | | | | | |
| CAS No | Chemical name | BCF | Species | Source | | | |
| 3164-85-0 | Potassium 2-ethylhexanoate | 2,96 | | | | | |

| Revision | No: 1 | ,03 - | Replaces | version: | 1,02 |
|----------|-------|-------|----------|----------|------|
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12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. not applicable

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

Inland waterways transport (ADN)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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| ENVIRONMENTALLY HAZARDOUS: | No | | | |
| 14.6. Special precautions for user | | | | |
| No dangerous good in sense of this tr | ansport regulation. | | | |
| 14.7. Maritime transport in bulk according | | | | |
| No dangerous good in sense of this tr | ansport regulation. | | | |
| SECTION 15: Regulatory information | | | | |
| 15.1. Safety, health and environmental reg | ulations/legislation specific for the substance or mixture | | | |
| EU regulatory information | | | | |
| Restrictions on use (REACH, annex XVII |): | | | |
| Entry 3, Entry 75 | | | | |
| 2010/75/EU (VOC): | 97,01 % (1086,512 g/l) | | | |
| 2004/42/EC (VOC): | 97,01 % (1086,512 g/l) | | | |
| Information according to 2012/18/EU (SEVESO III): | Not subject to 2012/18/EU (SEVESO III) | | | |
| Additional information | | | | |
| To follow: 850/2004/EC, 1107/2009/E | C, 649/2012/EC | | | |
| National regulatory information | | | | |
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile | | | |
| Water bezord close (D): | work protection guideline' (94/33/EC). | | | |
| Water hazard class (D): | 2 - obviously hazardous to water | | | |
| 15.2. Chemical safety assessment | stances in this mixture were not corriad out | | | |
| | stances in this mixture were not carried out. | | | |
| SECTION 16: Other information | | | | |
| Changes | | | | |
| This data sheet contains changes from | m the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16. | | | |
| Abbreviations and acronyms | | | | |
| | ort des marchandises dangereuses par Route | | | |
| | e International Carriage of Dangerous Goods by Road) | | | |
| IMDG: International Maritime Code fo | • | | | |
| IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals | | | | |
| EINECS: European Inventory of Existing Commercial Chemical Substances | | | | |
| ELINCS: European List of Notified Ch | iemical Substances | | | |
| CAS: Chemical Abstracts Service | | | | |

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration



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LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|--------------------|--------------------------|
| Acute Tox. 4; H302 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| STOT RE 2; H373 | Calculation method |

Relevant H and EUH statements (number and full text)

| H302 | Harmful if swallowed. |
|-------|--|
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| | |

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)