

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

ORABOND® UHBPrimerA

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

Adhesion promotor

1.3. Details of the supplier of the safety data sheet

| | | |
|---------------|---------------------|----------------------------|
| Company name: | ORAFOL Europe GmbH | |
| | Germany | |
| Street: | Orafolstraße 1 | |
| Place: | D-16515 Oranienburg | |
| Telephone: | + 49 3301 864 0 | Telefax: + 49 3301 864 100 |
| e-mail: | msds@orafol.de | |
| Internet: | www.orafol.com | |

1.4. Emergency telephone number:

National Poison Information Service: In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1A

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Flammable liquid and vapour.

Harmful if inhaled.

Harmful in contact with skin.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

reaction mass of ethylbenzene and xylene

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

Signal word: Danger

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 2 of 11

Pictograms:

Hazard statements

| | |
|-----------|--|
| H226 | Flammable liquid and vapour. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H304 | May be fatal if swallowed and enters airways. |

Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P102 | Keep out of reach of children. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER. |
| P331 | Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Hazardous components

| CAS No | Chemical name | Quantity |
|------------|---|---------------|
| | EC No | |
| | Index No | |
| | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | |
| | reaction mass of ethylbenzene and xylene | 95 - <= 100 % |
| | 905-588-0 | |
| | 01-2119539452-40 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304 | |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | < 1 % |
| | 500-191-5 | |
| | 01-2119972320-44 | |
| | Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A, Aquatic Chronic 2; H315 H318 H317 H411 | |

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

SECTION 4: First aid measures
4.1. Description of first aid measures

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 3 of 11

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

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.

After ingestion

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. Rinse mouth immediately and 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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Water.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Remove all sources of ignition. Provide adequate ventilation. 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 uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 4 of 11

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on storage compatibility

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)

Adhesion Promotor

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|------------|---|----------------|----------|------------------------|
| | reaction mass of ethylbenzene and xylene | | | |
| | Worker DNEL, long-term | inhalation | systemic | 221 mg/m ³ |
| | Worker DNEL, acute | inhalation | systemic | 442 mg/m ³ |
| | Worker DNEL, long-term | inhalation | local | 221 mg/m ³ |
| | Worker DNEL, acute | inhalation | local | 442 mg/m ³ |
| | Worker DNEL, long-term | dermal | systemic | 212 mg/kg bw/day |
| | Consumer DNEL, long-term | inhalation | systemic | 65,3 mg/m ³ |
| | Consumer DNEL, acute | inhalation | systemic | 260 mg/m ³ |
| | Consumer DNEL, long-term | inhalation | local | 65,3 mg/m ³ |
| | Consumer DNEL, acute | inhalation | local | 260 mg/m ³ |
| | Consumer DNEL, long-term | dermal | systemic | 125 mg/kg bw/day |
| | Consumer DNEL, long-term | oral | systemic | 12,5 mg/kg bw/day |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | |
| | Worker DNEL, long-term | inhalation | systemic | 3,9 mg/m ³ |
| | Worker DNEL, long-term | dermal | systemic | 1,1 mg/kg bw/day |
| | Consumer DNEL, long-term | inhalation | systemic | 0,97 mg/m ³ |
| | Consumer DNEL, long-term | dermal | systemic | 0,56 mg/kg bw/day |
| | Consumer DNEL, long-term | oral | systemic | 0,56 mg/kg bw/day |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 5 of 11

PNEC values

| CAS No | Substance | Value |
|--|---|--------------|
| Environmental compartment | | |
| reaction mass of ethylbenzene and xylene | | |
| Freshwater | | 0,327 mg/l |
| Freshwater (intermittent releases) | | 0,327 mg/l |
| Marine water | | 0,327 mg/l |
| Freshwater sediment | | 12,46 mg/kg |
| Marine sediment | | 12,46 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 6,58 mg/l |
| Soil | | 2,31 mg/kg |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | |
| Freshwater | | 0,004 mg/l |
| Freshwater (intermittent releases) | | 0,043 mg/l |
| Marine water | | 0 mg/l |
| Freshwater sediment | | 434,02 mg/kg |
| Marine sediment | | 43,4 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 3,84 mg/l |
| Soil | | 86,78 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Suitable eye protection: goggles.

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. 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 6 of 11

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|-----------------|------------|----------------|
| Physical state: | Liquid | |
| Colour: | colourless | |
| pH-Value: | | not determined |

Changes in the physical state

| | | |
|--|--|----------------|
| Melting point: | | not determined |
| Initial boiling point and boiling range: | | 136,16 °C |
| Flash point: | | 27 °C |

Flammability

| | | |
|-------------------------|--|----------------|
| Solid: | | not applicable |
| Gas: | | not applicable |
| Lower explosion limits: | | 0,9 vol. % |
| Upper explosion limits: | | 7 vol. % |
| Ignition temperature: | | 432 °C |

Auto-ignition temperature

| | | |
|----------------------------|--|----------------|
| Solid: | | not applicable |
| Gas: | | not applicable |
| Decomposition temperature: | | not determined |

Oxidizing properties

| | | |
|--------------------------------|--|----------------------------|
| Not oxidising. | | |
| Vapour pressure: (at 20 °C) | | ca. 13,4 hPa |
| Density: | | ca. 0,87 g/cm ³ |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. | |

Solubility in other solvents

| | | |
|--------------------------------------|--|-----------------------|
| not determined | | |
| Partition coefficient: | | not determined |
| Viscosity / dynamic: (at 25 °C) | | 10 mPa·s |
| Viscosity / kinematic: (at 25 °C) | | 12 mm ² /s |
| Vapour density: | | not determined |
| Evaporation rate: | | not determined |
| Solvent content: | | ca. 95-98% |

9.2. Other information

| | | |
|----------------|--|----------|
| Solid content: | | ca. 3-4% |
|----------------|--|----------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable.

10.2. Chemical stability

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 7 of 11

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Heating causes rise in pressure with risk of bursting.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Strong acid, Strong alkali, Oxidising agent

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
ATEmix calculated

ATE (dermal) 1145,8 mg/kg; ATE (inhalative vapour) 11,46 mg/l; ATE (inhalative aerosol) 1,563 mg/l

Acute toxicity

| CAS No | Chemical name | | | | | |
|------------|---|---------------|-----------|--------|---|--|
| | Exposure route | Dose | Species | Source | Method | |
| | reaction mass of ethylbenzene and xylene | | | | | |
| | oral | LD50 mg/kg | 3523 | Rat | Study report (1986) | EU Method B.1 |
| | dermal | LD50 mg/kg | 12126 | Rabbit | Publication (1962) | Single dermal dose under occlusion follo |
| | inhalative (4 h) vapour | LC50 | 6350 mg/l | Rat | Industrial Medicine 39, 215-200. (1970) | EU Method B.2 |
| | inhalative aerosol | ATE | 1,5 mg/l | | | |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | | | |
| | oral | LD50 mg/kg | > 2000 | Rat | Study report (2012) | OECD Guideline 423 |
| | dermal | LD50 mg/kg | > 2000 | Rat | Study report (2013) | OECD Guideline 402 |

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information
12.1. Toxicity

The product is not: Ecotoxic.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 8 of 11

| CAS No | Chemical name | | | | | |
|------------|---|-----------------|-----------|---|--|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| | reaction mass of ethylbenzene and xylene | | | | | |
| | Acute fish toxicity | LC50 4,2 mg/l | 96 h | Oncorhynchus mykiss | Ecotoxicology and Environmental Safety. | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 4,6 mg/l | 72 h | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety. | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l 3,82 | 48 h | Daphnia magna | Archives of Environmental Contamination | A flow through system was used to expose |
| | Fish toxicity | NOEC mg/l > 1,3 | 56 d | Oncorhynchus mykiss | Appl. Sci. Branch, Eng. Res. Cent. Denve | Fish were exposed in artificial streams |
| | Crustacea toxicity | NOEC mg/l 1,17 | 7 d | Ceriodaphnia dubia | Ecotoxicology and Environmental Safety 3 | other: US EPA 600/4-91-003 |
| | Acute bacteria toxicity | (> 198 mg/l) | 0,5 h | Activated sludge | Research Journal WPCF 60(10) 1850-1856 (| OECD Guideline 209 |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | | | |
| | Acute fish toxicity | LC50 mg/l 7,07 | 96 h | Danio rerio | Study report (2013) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l 4,34 | 72 h | Pseudokirchneriella subcapitata | Study report (2013) | OECD Guideline 201 |
| | Acute bacteria toxicity | (384 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | Study report (2012) | OECD Guideline 209 |

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|---|---------|
| | reaction mass of ethylbenzene and xylene | 3,2 |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 10,34 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---|----------------|---------------------|----------------------|
| | reaction mass of ethylbenzene and xylene | > 5,5 - < 12,2 | Oncorhynchus mykiss | Appl. Sci. Branch, E |
| 68082-29-1 | Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | 77,4 | no data | (2013) |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 9 of 11

Further information

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

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

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

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|-----------------------------|
| 14.1. UN number: | UN 1133 |
| 14.2. UN proper shipping name: | UN 1133, Adhesives, mixture |
| 14.3. Transport hazard class(es): | class 3, Code F1 |
| 14.4. Packing group: | III |
| Limited quantity: | 5 L |
| Tunnel restriction code: | D/E |

Other applicable information (land transport)

EQ: E1
Contaminated packaging - Instructions: P001 IBC03 LP01 R001
Contaminated packaging - Special provisions: PP1
Special provisions for packing together: MP19

Inland waterways transport (ADN)

| | |
|-------------------------|---------|
| 14.1. UN number: | UN 1133 |
|-------------------------|---------|

Marine transport (IMDG)

| | |
|--|-----------------------------|
| 14.1. UN number: | UN 1133 |
| 14.2. UN proper shipping name: | UN 1133, Adhesives, mixture |
| 14.3. Transport hazard class(es): | Class 3, Subrisk- |
| 14.4. Packing group: | III |
| Limited quantity: | 5 L |
| EmS: | F-E, S-D |

Other applicable information (marine transport)

Special provisions: 223, 955
Excepted quantities: E1
Contaminated packaging - Instructions: P001, LP01
Contaminated packaging - Provisions: PP1
Stowage and handling: Category A.
Properties and observations: Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.
Segregation group: none

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|-----------------------------|
| 14.1. UN number: | UN 1133 |
| 14.2. UN proper shipping name: | UN 1133, Adhesives, mixture |
| 14.3. Transport hazard class(es): | Class 3 |
| 14.4. Packing group: | III |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 10 of 11

Other applicable information (air transport)

Hazard label: Flamm. liquid
Excepted Quantity Code: E1
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft: Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only: Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Special provisions: A3
Emergency Response Guide-Code (ERG): 3L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

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

2010/75/EU (VOC): 96-98 %
2004/42/EC (VOC): 96-98 %
Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Water contaminating class (D): 2 - clearly water contaminating
Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Safety Data Sheet

according to Regulation (EC) No 1907/2006

ORABOND® UHBPrimerA

Revision date: 11.10.2018

Product code: UHBPrimerA

Page 11 of 11

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

| Classification | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 3; H226 | On basis of test data |
| Acute Tox. 4; H332 | Calculation method |
| Acute Tox. 4; H312 | Calculation method |
| Asp. Tox. 1; H304 | |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| Skin Sens. 1A; H317 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| STOT RE 2; H373 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|-----------|--|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H312+H332 | Harmful in contact with skin or if inhaled. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances 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.)