

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Release spray Semiperm™ Monofilm

Revision date: 16.01.2019

Product code: 165104

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

Release spray Semiperm™ Monofilm

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

Lubricants, greases, release products

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---------------------------------|------------------------------|
| Company name: | R&G Faserverbundwerkstoffe GmbH | |
| | Composite Technology | |
| Street: | Im Meißel 7 - 13 | |
| Place: | D-71111 Waldenbuch | |
| Post-office box: | 1145 | |
| | D-71107 Waldenbuch | |
| Telephone: | +49 (0)7157 5304-60 | Telefax: +49 (0)7157 5304-70 |
| e-mail: | info@r-g.de | |
| Internet: | www.r-g.de | |
| Responsible Department: | Management | |

1.4. Emergency telephone number:Vergiftungs-Informations-Zentrale Freiburg
Tel: +49 (0)761 19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Acute toxicity: Acute Tox. 4

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if inhaled.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Toxic to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008**

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Hazard components for labelling

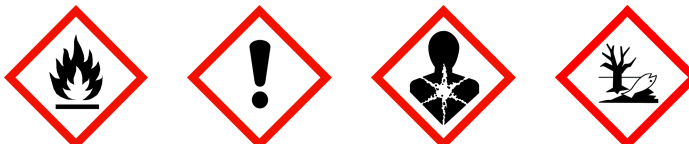
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha xylene

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha

Signal word: Danger

Pictograms:



Hazard statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary statements

| | |
|----------------|--|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P321 | Specific treatment (see on this label). |
| P331 | Do NOT induce vomiting. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P405 | Store locked up. |
| P501 | Dispose of waste according to applicable legislation. |

2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | | | 30 - < 35 % |
| | 265-151-9 | 649-328-00-1 | 01-2119475133-43 | |
| | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 | | | |
| 1330-20-7 | xylene | | | 25 - < 30 % |
| | 215-535-7 | 601-022-00-9 | | |
| | 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 | | | |
| 64742-95-6 | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | | | 20 - < 25 % |
| | 265-199-0 | 649-356-00-4 | 01-2119455851-35 | |
| | Flam. Liq. 3, Acute Tox. 4, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H332 H335 H336 H304 H411 | | | |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha | | | 10 - < 15 % |
| | 265-150-3 | 649-327-00-6 | | |
| | Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411 | | | |
| 78-93-3 | butanone; ethyl methyl ketone | | | 5 - < 10 % |
| | 201-159-0 | | | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |
| 67-64-1 | acetone; propan-2-one; propanone | | | 5 - < 10 % |
| | 200-662-2 | | | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

If unconscious place in recovery position and seek medical advice.

After contact with skin

In case of skin irritation, seek medical treatment. After contact with skin, wash immediately with plenty of water and soap.

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

Immediately call a doctor. Do not give fatty oils and milk.

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

Headache, Dizziness, Drowsiness, Unconsciousness, Nausea
No further relevant information available.

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

Observe risk of aspiration if vomiting occurs.
No further relevant information available.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Sand, Extinguishing powder

Unsuitable extinguishing media

Water, Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide (CO), Gases/vapours, toxic)

5.3. Advice for firefighters

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

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 to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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. Provide adequate ventilation.

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Provide room air exhaust at ground level.

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

Suitable floor material: Material, solvent-resistant. The floor should be leak tight, jointless and not absorbent. Keep container tightly closed in a cool, well-ventilated place. Heating causes rise in pressure with risk of bursting.

Hints on joint storage

Do not store together with: Oxidizing agent.

7.3. Specific end use(s)

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Lubricants, greases, release products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|-----------------------------------|------|-------------------|-----------|---------------|--------|
| 67-64-1 | Acetone | 500 | 1210 | | TWA (8 h) | WEL |
| | | 1500 | 3620 | | STEL (15 min) | WEL |
| 78-93-3 | Butan-2-one (methyl ethyl ketone) | 200 | 600 | | TWA (8 h) | WEL |
| | | 300 | 899 | | STEL (15 min) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| | | 100 | 441 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 78-93-3 | Butan-2-one | butan-2-one | 70 µmol/L | urine | Post shift |
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine | Post shift |

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Provide room air exhaust at ground level.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Separate storage of work clothes. Avoid contact with the eyes and skin. When using do not eat, drink, smoke, sniff.

Eye/face protection

Tightly sealed safety glasses.

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.

Wear suitable gloves.

Suitable material: NBR (Nitrile rubber), Thickness of glove material: $\geq 0,4$ mm

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.

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Respiratory protection

short-term: Filtering device (full mask or mouthpiece) with filter: A/P2

prolonged exposure Self-contained respirator (breathing apparatus) (DIN EN 133)

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | | |
|-----------------|----------------|----------------|
| Physical state: | Liquid | |
| Colour: | whitish | |
| Odour: | characteristic | |
| pH-Value: | | not determined |

Changes in the physical state

| | | |
|--|--|----------------|
| Melting point: | | not determined |
| Initial boiling point and boiling range: | | 80 °C |
| Flash point: | | 0 °C |

Flammability

| | | |
|--------|--|----------------|
| Solid: | | not applicable |
| Gas: | | not applicable |

Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

| | | |
|-------------------------|--|------------|
| Lower explosion limits: | | 0,6 vol. % |
| Upper explosion limits: | | 7,7 vol. % |
| Ignition temperature: | | 240 °C |

Auto-ignition temperature

| | | |
|--------|--|----------------|
| Solid: | | not applicable |
| Gas: | | not applicable |

| | | |
|----------------------------|--|----------------|
| Decomposition temperature: | | not determined |
|----------------------------|--|----------------|

Oxidizing properties

Not oxidising.

| | | |
|--------------------------------|--|------------------------|
| Vapour pressure: (at 20 °C) | | 61 hPa |
| Density (at 20 °C): | | 0,78 g/cm ³ |
| Water solubility: | | Immiscible |

Solubility in other solvents

not determined

| | | |
|------------------------|--|---|
| Partition coefficient: | | not determined |
| Viscosity / dynamic: | | not determined |
| Viscosity / kinematic: | | not determined |
| Vapour density: | | not determined |
| Evaporation rate: | | not determined |
| Solvent content: | | 93,7 % (Solvents:) 93,70 % (VOC EU) |

9.2. Other information

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Odour threshold: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if inhaled.

ATEmix calculated

ATE (inhalation aerosol) 3,333 mg/l

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| CAS No | Chemical name | | | | |
|------------|---|-------------------|---------|--------------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 64742-49-0 | Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | Manufacturer | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | Manufacturer | |
| 1330-20-7 | xylene | | | | |
| | oral | LD50 4300 mg/kg | Rat | Manufacturer | |
| | dermal | LD50 2000 mg/kg | Rabbit | Manufacturer | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation aerosol | ATE 1,5 mg/l | | | |
| 64742-95-6 | Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified | | | | |
| | oral | LD50 > 6800 mg/kg | Rat | Manufacturer | |
| | dermal | LD50 > 3400 mg/kg | Rabbit | Manufacturer | |
| | inhalation vapour | ATE 11 mg/l | | | |
| | inhalation aerosol | ATE 1,5 mg/l | | | |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Manufacturer | |
| | dermal | LD50 > 3000 mg/kg | Rabbit | Manufacturer | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

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

May cause respiratory irritation. (xylene; Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified)

May cause drowsiness or dizziness. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene)

Aspiration hazard

May be fatal if swallowed and enters airways. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; xylene; Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified; Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha)

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

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The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

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. Collect the waste separately.

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)

| | |
|---|---|
| <u>14.1. UN number:</u> | UN 1993 |
| <u>14.2. UN proper shipping name:</u> | FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |
| |  |
| Classification code: | F1 |
| Special Provisions: | 274 601 640D |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|---|---|
| <u>14.1. UN number:</u> | UN 1993 |
| <u>14.2. UN proper shipping name:</u> | FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | II |
| Hazard label: | 3 |

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Classification code: F1
 Special Provisions: 274 601 640D
 Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: 274
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1993
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone)
14.3. Transport hazard class(es): 3
14.4. Packing group: I
 Hazard label: 3



Special Provisions: A3
 Limited quantity Passenger: Forbidden
 Passenger LQ: Forbidden
 Excepted quantity: E3
 IATA-packing instructions - Passenger: 351
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 361
 IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified, Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha

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14.6. Special precautions for user

Warning! flammable liquids

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

not applicable

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

Restrictions on use (REACH, annex XVII):

Entry 3: Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha; xylene; Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified; Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha; butanone; ethyl methyl ketone; acetone; propan-2-one; propanone

Entry 40: xylene, butanone; ethyl methyl ketone, acetone; propan-2-one; propanone, Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified, Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha

| | |
|---|---|
| 2010/75/EU (VOC): | 93,70 % |
| Information according to 2012/18/EU (SEVESO III): | E2 Hazardous to the Aquatic Environment |
| Additional information: | P5c |

National regulatory information

| | |
|--------------------------------|---------------------------------|
| Water contaminating class (D): | 2 - clearly water contaminating |
|--------------------------------|---------------------------------|

15.2. Chemical safety assessment

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

SECTION 16: Other information**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%

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

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data |
| Acute Tox. 4; H332 | Calculation method |
| Asp. Tox. 1; H304 | Calculation method |
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H335 | Calculation method |
| STOT SE 3; H336 | Calculation method |
| STOT RE 2; H373 | Calculation method |
| Aquatic Chronic 2; H411 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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.)