# Safety Data Sheet
## according to Regulation (EC) No. 1907/2006 (REACH)

SCHWEIZER-EFFAX since 1906

| | | | |
|---|---|---|---|
| **Trade name :** | Effol Ice-Pack | | |
| **Revision date :** | 15.01.2024 | **Version (Revision) :** | 3.1.0 (3.0.0) |
| **Print date :** | 05.12.2024 | | |

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

### 1.1 Product identifier
Effol Ice-Pack

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

### 1.3 Details of the supplier of the safety data sheet
#### Supplier
Schweizer-Effax GmbH

**Street :** Westring 24

**Postal code/City :** 48356 Nordwalde

**Country :** Deutschland

**Telephone :** +49 2573 9373-0

**Telefax :** +49 2573 9373-73

**Information contact :** info@schweizer-effax.de

www.schweizer-effax.de

### 1.4 Emergency telephone number

Germany: Poisons Information Centre Berlin
Charité – Universitätsmedizin Berlin
Campus Benjamin Franklin
Haus VIII, UG
Hindenburgdamm 30
D-12203 Berlin
+49(0)30/30686 700, Internat. INFOTRAC +1 3523233500

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
#### Classification according to Regulation (EC) No 1272/2008 [CLP]
None

### 2.2 Label elements
None

### 2.3 Other hazards
#### Adverse human health effects and symptoms
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures
**Hazardous ingredients**

None

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### In case of skin contact

In case of skin irritation, consult a physician. Wash immediately with: Water and soap

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately (poison centre).

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

**Symptoms**

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.
In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

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

treatment: Symptoms (decontamination, vital functions), no known specific antidote.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. , Foam , Carbon dioxide (CO2) , Dry extinguishing powder , Sand

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Full protection suit , Use suitable breathing apparatus.

### 5.4 Additional information

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8. Provide adequate ventilation. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

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

No special measures are necessary.

#### Protective measures

**Measures to prevent fire**

Usual measures for fire prevention.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Protect against UV-radiation/sunlight , Heat.

#### Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

**Storage class (TRGS 510) :** 12

### 7.3 Specific end use(s)

Observe instructions for use. see section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Personal protection equipment

Use personal protection equipment.

#### Eye/face protection

Eye glasses with side protection EN 166

#### Skin protection

**Hand protection**

**By short-term hand contact** : Hand protection is not required.

**By long-term hand contact** : Check leak tightness/impermeability prior to use.
Suitable material Butyl caoutchouc (butyl rubber) , NBR (Nitrile rubber)
Breakthrough time 480 min

**Remark** : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

**Body protection**

Wear anti-static footwear and clothing

Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres
Chemical resistant safety shoes DIN EN 13832-2

### Respiratory protection

Usually no personal respirative protection necessary.

### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid
**Colour :** colourless
**Odour :** odourless

### Safety characteristics

| | | | | |
|---|---|---|---|---|
| **Physical state :** | | | Liquid | |
| **Melting point/freezing point :** | | | not determined | |
| **Decomposition temperature :** | | | not determined | |
| **Flash point :** | | | not applicable | |
| **Auto-ignition temperature :** | | | not applicable | |
| **Lower explosion limit :** | | | not applicable | |
| **Upper explosion limit :** | | | not applicable | |
| **Density :** | ( 20 °C ) | approx. | 1 | g/cm³ |
| **Water solubility :** | ( 20 °C ) | | 0 - 100 | Weight-% |
| **Fat solubility :** | ( 20 °C ) | | Practically insoluble. | |
| **pH :** | | | 6 - 7 | |
| **log P O/W :** | | | not determined | |
| **Viscosity :** | ( 20 °C ) | | not relevant | |
| **Cinematic viscosity :** | ( 40 °C ) | | not relevant | |
| **Odour threshold :** | | | not determined | |
| **Relative vapour density :** | ( 20 °C ) | | not determined | |
| **Vapourisation rate :** | | | not determined | |
| **Flammable solids :** | Not applicable. | | | |
| **Flammable gases :** | Not applicable. | | | |
| **Oxidising liquids :** | Not relevant. | | | |
| **Explosive properties :** | Not applicable. | | | |
| **Corrosive to metals :** | Not relevant. | | | |

### 9.2 Other information

None

## 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 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

See section 7 of the safety data sheet.

### 10.5 Incompatible materials

None known.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### Corrosion

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

#### Respiratory or skin sensitisation

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

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**Carcinogenicity**

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

**Germ cell mutagenicity**

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

**Reproductive toxicity**

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

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

#### Aspiration hazard

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

### 11.2 Information on other hazards

Endocrine disrupting potential:
The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity
The product has not been tested.The statements on toxicology were derived from the properties of the individual components.

## SECTION 12: Ecological information

### 12.1 Toxicity

The product has not been tested. The statement is derived from the properties of the single components.

#### Aquatic toxicity

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

### 12.2 Persistence and degradability

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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

### 12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.8 Additional ecotoxicological information

**Additional information**

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

### 13.2 Additional information

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

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

**National regulations**

CH: Chemicals Ordinance, ChemO

**Water hazard class**

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

**Other regulations, restrictions and prohibition regulations**

**Switzerland**

**VOCV-Regulation**

See section 9.1

### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture/preparation a chemical safety assessment has been carried out :

None

## SECTION 16: Other information

### 16.1 Indication of changes

02. Label elements · 11. Acute toxicity · 11. Corrosion · 11. Respiratory or skin sensitisation · 11. Carcinogenicity · 11. Germ cell mutagenicity · 11. Reproductive toxicity · 11. STOT-single exposure · 11. STOT-repeated exposure · 11. Aspiration hazard · 12. Aquatic toxicity

### 16.2 Abbreviations and acronyms

ADR = European Agreement concerning the carriage of Dangerous goods by Road
ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways
ATE = Estimated values for acute toxicity
AwSV = Ordinance on Installations for Handling Substances Hazardous to Water
CAS = Chemical Abstract Service Number
CE = European Community
CLP = EC Regulation 1272/2008
CMR = cancerogen mutagen reprotoxic
DIN = German Institute for Standardisation
DNEL = Derived No Effect Level
DMEL = Derived Minimum Effect Level
EC50 = Mean effective concentration that induces a defined effect other than death in a test population
EG = European Community
EN = European standards
IATA = International Air Transport Association Dangerous Goods Regulation
IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities
IMDG = International Maritime Code for dangerous goods
ISO = International Organization for Standardization
LC50 = Lethal Concentration 50%
LD50 = Lethal dose 50%
MAK = Maximum workplace concentration
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter
NOEC = No Observed Effect Concentration
OECD = Organisation for Economic Cooperation and Development
PBT = Persistent, bioaccumulative and toxic
pH = potential of hydrogen
PNEC = Predicted no effect concentration
PPM = parts per million
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)
RID = Regulation concerning the international transport of dangerous goods by train
TRGS = Technical rules for hazardous substances (german rules)
TWA = Time-weighted average exposure limit
UN-Number = UN number for the transport of dangerous goods
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation
VOC = Volatile organic Compounds

### 16.3 Key literature references and sources for data

None

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

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

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

None

## 16.6 Training advice

None

## 16.7 Additional information

None

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

# Safety Data Sheet
## according to Regulation (EC) No. 1907/2006 (REACH)

SCHWEIZER-EFFAX since 1906

| | | | |
|---|---|---|---|
| **Trade name :** | Effol Skin-Balm | | |
| **Revision date :** | 18.01.2023 | **Version :** | 1.0.0 |
| **Print date :** | 05.12.2024 | | |

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

### 1.1 Product identifier
Effol Skin-Balm

### 1.2 Relevant identified uses of the substance or mixture and uses advised against
#### Relevant identified uses
Products for animals

### 1.3 Details of the supplier of the safety data sheet
#### Supplier
Schweizer-Effax GmbH

**Street :** Westring 24

**Postal code/City :** 48356 Nordwalde

**Country :** Deutschland

**Telephone :** +49 2573 9373-0

**Telefax :** +49 2573 9373-73

**Information contact :** info@schweizer-effax.de

www.schweizer-effax.de

### 1.4 Emergency telephone number

Germany: Poisons Information Centre Berlin
Charité – Universitätsmedizin Berlin
Campus Benjamin Franklin
Haus VIII, UG
Hindenburgdamm 30
D-12203 Berlin
+49(0)30/30686 700, Internat. INFOTRAC +1 3523233500

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
#### Classification according to Regulation (EC) No 1272/2008 [CLP]
Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

### 2.2 Label elements
#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]
**Hazard pictograms**

Environment (GHS09)

**Hazard statements**

| | |
|---|---|
| H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

| | |
|---|---|
| P102 | Keep out of the reach of children. |
| P264 | Wash hands thoroughly after handling. |
| P273 | Avoid release to the environment. |

P501 Dispose of contents/container to to hazardous or special waste collection point

**Special rules for supplemental label elements for certain mixtures**

EUH208 Contains Cineol ; METHYL SALICYLATE ; Pin-2(3)-ene ; 3-P-MENTHANON.May produce an allergic reaction.

## 2.3 Other hazards

### Adverse human health effects and symptoms

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

### Adverse environmental effects

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

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

## SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

**Hazardous ingredients**

ZINC OXIDE ; REACH No. : 01-2119463881-32-XXXX ; EC No. : 215-222-5; CAS No. : 1314-13-2
Weight fraction : ≥ 2,5 - < 5 %
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Melaleuca alternifolia, ext. ; REACH No. : 01-2120743651-57-XXXX ; EC No. : 285-377-1; CAS No. : 85085-48-9
Weight fraction : ≥ 1 - < 2,5 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H302 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Aquatic Chronic 2 ; H411

Cineol ; REACH No. : 01-2119967772-24--XXXX ; EC No. : 207-431-5; CAS No. : 470-82-6
Weight fraction : ≥ 0,5 - < 1 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Sens. 1 ; H317

METHYL SALICYLATE ; REACH No. : 01-2119515671-44-XXXX ; EC No. : 204-317-7; CAS No. : 119-36-8
Weight fraction : ≥ 0,5 - < 1 %
Classification 1272/2008 [CLP] : Repr. 2 ; H361d Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1B ; H317 Aquatic Chronic 3 ; H412
Specific Conc. Limits : (ATE - oral : 890 mg/kg)

Pin-2(3)-ene ; REACH No. : 01-2119519223-49-XXXX ; EC No. : 201-291-9; CAS No. : 80-56-8
Weight fraction : ≥ 0,1 - < 0,25 %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410
Specific Conc. Limits : (M=1)

camphene ; REACH No. : 01-2119446293-40-XXXX ; EC No. : 201-234-8; CAS No. : 79-92-5
Weight fraction : < 0,25 %
Classification 1272/2008 [CLP] : Flam. Sol. 2 ; H228 Eye Irrit. 2 ; H319 Aquatic Chronic 1 ; H410
Specific Conc. Limits : (M=1)

3-P-MENTHANON ; REACH No. : 01-2119983789-09-XXXX ; EC No. : 237-926-1; CAS No. : 14073-97-3
Weight fraction : ≥ 0,1 - < 0,5 %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1B ; H317

**Additional information**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

### General information
When in doubt or if symptoms are observed, get medical advice.

### Following inhalation
In case of respiratory tract irritation, consult a physician. Remove casualty to fresh air and keep warm and at rest.

### In case of skin contact
In case of skin reactions, consult a physician. Wash immediately with: Water and soap

### After eye contact
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

### Following ingestion
Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately (poison centre).

## 4.2 Most important symptoms and effects, both acute and delayed
**Symptoms**

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.
In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

## 4.3 Indication of any immediate medical attention and special treatment needed
treatment: Symptoms (decontamination, vital functions), no known specific antidote.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media
Foam , Carbon dioxide (CO2) , Dry extinguishing powder , Sand , Co-ordinate fire-fighting measures to the fire surroundings.

### Unsuitable extinguishing media
Full water jet , Strong water jet

## 5.2 Special hazards arising from the substance or mixture
Thermal decomposition can lead to the escape of irritating gases and vapours.

## 5.3 Advice for firefighters
### Special protective equipment for firefighters
Full protection suit , Use suitable breathing apparatus.

## 5.4 Additional information
Move undamaged containers from immediate hazard area if it can be done safely.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. See protective measures under point 7 and 8. Special danger of slipping by leaking/spilling product.

## 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
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clear contaminated areas thoroughly. 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

It is recommended to design all work processes always so that the following is excluded: Inhalation of vapours or spray/mists
Handle and open container with care. Use only in well-ventilated areas.

#### Protective measures

**Measures to prevent fire**

Usual measures for fire prevention. Always close containers tightly after the removal of product.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.
Protect against UV-radiation/sunlight , Heat.

#### Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

**Storage class (TRGS 510) :** 12

### 7.3 Specific end use(s)

Observe instructions for use. see section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Personal protection equipment

Use personal protection equipment.

#### Eye/face protection

Eye glasses with side protection EN 166

#### Skin protection

**Hand protection**

**By short-term hand contact** : Suitable gloves type Disposable gloves. NBR (Nitrile rubber)

**By long-term hand contact** : Check leak tightness/impermeability prior to use.
Suitable material CR (polychloroprene, chloroprene rubber) , NBR (Nitrile rubber) , Butyl caoutchouc (butyl rubber) , NR (natural rubber, Natural latex)
Breakthrough time 480 min
Thickness of the glove material Polychloroprene - CR (0.5 mm) Nitrile rubber/nitrile latex - NBR (0.35 mm) Butyl rubber - Butyl (0.5 mm)

**Required properties** : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

**Remark** : Check leak tightness/impermeability prior to use. Breakthrough times and swelling properties of the material must be taken into consideration.

**Body protection**

Wear anti-static footwear and clothing
Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres
Chemical resistant safety shoes DIN EN 13832-2

### Respiratory protection

Usually no personal respirative protection necessary.

### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** emulsion

**Colour :** white

**Odour :** characteristic

### Safety characteristics

| | | | |
|---|---|---|---|
| **Physical state :** | | Liquid | |
| **Melting point/freezing point :** | | No data available | |
| **Initial boiling point and boiling range :** | ( 1013 hPa ) | No data available | |
| **Decomposition temperature :** | | not determined | |
| **Flash point :** | | not applicable | |
| **Auto-ignition temperature :** | | not applicable | |
| **Lower explosion limit :** | | not applicable | |
| **Upper explosion limit :** | | not applicable | |
| **Vapour pressure :** | ( 50 °C ) | not applicable | |
| **Density :** | ( 20 °C ) | 1,02 - 1,03 | g/cm³ |
| **Water solubility :** | ( 20 °C ) | not determined | |
| **Fat solubility :** | ( 20 °C ) | Not determined. | |
| **pH :** | | not applicable | |
| **log P O/W :** | | not determined | |
| **Viscosity :** | ( 20 °C ) | No data available | |
| **Cinematic viscosity :** | ( 40 °C ) | not relevant | |
| **Odour threshold :** | | not determined | |
| **Relative vapour density :** | ( 20 °C ) | not determined | |
| **Vapourisation rate :** | | not determined | |
| **Maximum VOC content (EC) :** | | 0,1 | Weight-% |
| **Flammable solids :** | Not applicable. | | |
| **Flammable gases :** | Not applicable. | | |
| **Oxidising liquids :** | Not relevant. | | |
| **Explosive properties :** | Not applicable. | | |
| **Corrosive to metals :** | Not relevant. | | |

### 9.2 Other information

None

## 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 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
See section 7 of the safety data sheet.

### 10.5 Incompatible materials
None known.

### 10.6 Hazardous decomposition products
Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

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

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

#### Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
**Carcinogenicity**
Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**
Based on available data, the classification criteria are not met.

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

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

### 11.2 Information on other hazards
Endocrine disrupting potential:
The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity
The product has not been tested.The statements on toxicology were derived from the properties of the individual components.

## SECTION 12: Ecological information

### 12.1 Toxicity
The product has not been tested. The statement is derived from the properties of the single components.

### Aquatic toxicity

Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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

### 12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.8 Additional ecotoxicological information

**Additional information**

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

### 13.2 Additional information

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

UN 3082

### 14.2 UN proper shipping name

**Land transport (ADR/RID)**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( ZINC OXIDE · Pin-2(3)-ene )

**Sea transport (IMDG)**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( ZINC OXIDE · Melaleuca alternifolia, ext. · Pin-2(3)-ene · camphene )

**Air transport (ICAO-TI / IATA-DGR)**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ( ZINC OXIDE · Pin-2(3)-ene )

### 14.3 Transport hazard class(es)

**Land transport (ADR/RID)**

| | |
|---|---|
| **Class(es) :** | 9 |
| **Classification code :** | M6 |
| **Hazard identification number (Kemler No.) :** | 90 |

**Tunnel restriction code :** -
**Special Provisions :** LQ 5 l · E 1 · ADR : - (SP 375 <= 5 l/kg)
**Hazard label(s) :** 9 / N

**Sea transport (IMDG)**
**Class(es) :** 9
**EmS-No. :** F-A / S-F
**Special Provisions :** LQ 5 l · E 1 · IMDG : - (SP 2.10.2.7 <= 5 l/kg)
**Hazard label(s) :** 9 / N

**Air transport (ICAO-TI / IATA-DGR)**
**Class(es) :** 9
**Special Provisions :** E 1 · IATA : - (SP A197 <= 5 l/kg)
**Hazard label(s) :** 9 / N

### 14.4 Packing group
III

### 14.5 Environmental hazards
**Land transport (ADR/RID) :** Yes
**Sea transport (IMDG) :** Yes (P)
**Air transport (ICAO-TI / IATA-DGR) :** Yes

### 14.6 Special precautions for user
None

### 14.7 Maritime transport in bulk according to IMO instruments
No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
**EU legislation**
**Authorisations and/or restrictions on use**
**Restrictions on use**
**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**
Use restriction according to REACH annex XVII, no. : 3, 40, 75
**National regulations**
**Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**
Weight fraction (Number 5.2.5. I) : < 5 %
**Water hazard class**
Classification according to AwSV - Class : 1 (Slightly hazardous to water)

### 15.2 Chemical Safety Assessment
A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture/preparation a chemical safety assessment has been carried out :
ZINC OXIDE ; REACH No. : 01-2119463881-32-XXXX ; EC No. : 215-222-5; CAS No. : 1314-13-2
Melaleuca alternifolia, ext. ; REACH No. : 01-2120743651-57-XXXX ; EC No. : 285-377-1; CAS No. : 85085-48-9
Cineol ; REACH No. : 01-2119967772-24--XXXX ; EC No. : 207-431-5; CAS No. : 470-82-6
METHYL SALICYLATE ; REACH No. : 01-2119515671-44-XXXX ; EC No. : 204-317-7; CAS No. : 119-36-8
Pin-2(3)-ene ; REACH No. : 01-2119519223-49-XXXX ; EC No. : 201-291-9; CAS No. : 80-56-8 (M=1)
camphene ; REACH No. : 01-2119446293-40-XXXX ; EC No. : 201-234-8; CAS No. : 79-92-5 (M=1)
3-P-MENTHANON ; REACH No. : 01-2119983789-09-XXXX ; EC No. : 237-926-1; CAS No. : 14073-97-3

## SECTION 16: Other information

## 16.1 Indication of changes

None

## 16.2 Abbreviations and acronyms

ADR = European Agreement concerning the carriage of Dangerous goods by Road
ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways
ATE = Estimated values for acute toxicity
AwSV = Ordinance on Installations for Handling Substances Hazardous to Water
CAS = Chemical Abstract Service Number
CE = European Community
CLP = EC Regulation 1272/2008
CMR = cancerogen mutagen reprotoxic
DIN = German Institute for Standardisation
DNEL = Derived No Effect Level
DMEL = Derived Minimum Effect Level
EC50 = Mean effective concentration that induces a defined effect other than death in a test population
EG = European Community
EN = European standards
IATA = International Air Transport Association Dangerous Goods Regulation
IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities
IMDG = International Maritime Code for dangerous goods
ISO = International Organization for Standardization
LC50 = Lethal Concentration 50%
LD50 = Lethal dose 50%
MAK = Maximum workplace concentration
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter
NOEC = No Observed Effect Concentration
OECD = Organisation for Economic Cooperation and Development
PBT = Persistent, bioaccumulative and toxic
pH = potential of hydrogen
PNEC = Predicted no effect concentration
PPM = parts per million
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)
RID = Regulation concerning the international transport of dangerous goods by train
TRGS = Technical rules for hazardous substances (german rules)
TWA = Time-weighted average exposure limit
UN-Number = UN number for the transport of dangerous goods
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation
VOC = Volatile organic Compounds

## 16.3 Key literature references and sources for data

None

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

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

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

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |

| | |
|---|---|
| H361d | Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

## 16.6 Training advice

None

## 16.7 Additional information

None

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

# Safety Data Sheet
## according to Regulation (EC) No. 1907/2006 (REACH)

SCHWEIZER-EFFAX since 1906

| | | | |
|---|---|---|---|
| **Trade name :** | Effol Liquid-Barrier | | |
| **Revision date :** | 12.02.2024 | **Version :** | 1.0.0 |
| **Print date :** | 05.12.2024 | | |

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

### 1.1 Product identifier
Effol Liquid-Barrier

### 1.2 Relevant identified uses of the substance or mixture and uses advised against
#### Relevant identified uses
Products for animals

### 1.3 Details of the supplier of the safety data sheet
#### Supplier
Schweizer-Effax GmbH

**Street :** Westring 24

**Postal code/City :** 48356 Nordwalde

**Country :** Deutschland

**Telephone :** +49 2573 9373-0

**Telefax :** +49 2573 9373-73

**Information contact :** info@schweizer-effax.de

www.schweizer-effax.de

### 1.4 Emergency telephone number

Germany: Poisons Information Centre Berlin
Charité – Universitätsmedizin Berlin
Campus Benjamin Franklin
Haus VIII, UG
Hindenburgdamm 30
D-12203 Berlin
+49(0)30/30686 700, Internat. INFOTRAC +1 3523233500

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture
#### Classification according to Regulation (EC) No 1272/2008 [CLP]
None

### 2.2 Label elements
#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]
**Precautionary statements**

| | |
|---|---|
| P102 | Keep out of the reach of children. |
| 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 in accordance with local and national legislation. |

### 2.3 Other hazards
#### Adverse human health effects and symptoms
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Hazardous ingredients**

None

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### In case of skin contact

In case of skin irritation, consult a physician. Wash immediately with: Water and soap

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Seek medical advice immediately (poison centre).

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

**Symptoms**

Important or further important known symptoms and effects are described in the GHS labelling of the product (see section 2) and in section 11 (Toxicological information). (Further) symptoms and/or effects are not yet known.
In our experience, no special hazards are to be expected if the product is handled properly and is used as intended.

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

treatment: Symptoms (decontamination, vital functions), no known specific antidote.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. , Foam , Carbon dioxide (CO2) , Dry extinguishing powder , Sand

### 5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

Full protection suit , Use suitable breathing apparatus.

### 5.4 Additional information

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8. Provide adequate ventilation. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3 Methods and material for containment and cleaning up

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

No special measures are necessary.

#### Protective measures

**Measures to prevent fire**

Usual measures for fire prevention.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Protect against UV-radiation/sunlight , Heat.

#### Requirements for storage rooms and vessels

Floors should be impervious, resistant to liquids and easy to clean. Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

**Storage class (TRGS 510) :** 12

### 7.3 Specific end use(s)

Observe instructions for use. see section 1.2

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Personal protection equipment

Use personal protection equipment.

#### Eye/face protection

Eye glasses with side protection EN 166

#### Skin protection

**Hand protection**

**By short-term hand contact** : Hand protection is not required.
**By long-term hand contact** : Check leak tightness/impermeability prior to use.
Suitable material Butyl caoutchouc (butyl rubber) , NBR (Nitrile rubber)
Breakthrough time 480 min

**Remark** : When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374

**Body protection**

Wear anti-static footwear and clothing
Protective clothing. EN 13034 Natural fibres (e.g. cotton) , heat-resistant synthetic fibres
Chemical resistant safety shoes DIN EN 13832-2

### Respiratory protection

Usually no personal respirative protection necessary.

### General information

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** Liquid

**Colour :** greenish blue

**Odour :** characteristic

### Safety characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Physical state :** | | | Liquid | | |
| **Melting point/freezing point :** | | | No data available | | |
| **Initial boiling point and boiling range :** | ( 1013 hPa ) | approx. | 100 | °C | |
| **Decomposition temperature :** | | | not determined | | |
| **Flash point :** | | | not applicable | | |
| **Auto-ignition temperature :** | | | not applicable | | |
| **Lower explosion limit :** | | | not applicable | | |
| **Upper explosion limit :** | | | not applicable | | |
| **Vapour pressure :** | ( 50 °C ) | | not applicable | | |
| **Density :** | ( 20 °C ) | approx. | 1,01 | g/cm³ | |
| **Solvent separation test :** | ( 20 °C ) | | not applicable | | |
| **Water solubility :** | ( 20 °C ) | <= | 100 | Weight-% | |
| **Fat solubility :** | ( 20 °C ) | | Not determined. | | |
| **pH :** | | | 4,8 - 5,8 | | |
| **log P O/W :** | | | not determined | | |
| **Flow time :** | ( 20 °C ) | | not relevant | | DIN-cup 4 mm |
| **Viscosity :** | ( 20 °C ) | | not determined | | |
| **Cinematic viscosity :** | ( 40 °C ) | | not relevant | | |
| **Odour threshold :** | | | not determined | | |
| **Relative vapour density :** | ( 20 °C ) | | not determined | | |
| **Vapourisation rate :** | | | not determined | | |
| **Maximum VOC content (EC) :** | | | 0,1 | Weight-% | |
| **Flammable solids :** | Not applicable. | | | | |
| **Flammable gases :** | Not applicable. | | | | |
| **Oxidising liquids :** | Not relevant. | | | | |
| **Explosive properties :** | Not applicable. | | | | |
| **Corrosive to metals :** | Not relevant. | | | | |

### 9.2 Other information

None

## 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 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
See section 7 of the safety data sheet.

### 10.5 Incompatible materials
None known.

### 10.6 Hazardous decomposition products
Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

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

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

#### Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
**Carcinogenicity**
Based on available data, the classification criteria are not met.
**Germ cell mutagenicity**
Based on available data, the classification criteria are not met.
**Reproductive toxicity**
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
Based on available data, the classification criteria are not met.

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

### 11.2 Information on other hazards
Endocrine disrupting potential:
The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other indications of toxicity
The product has not been tested.The statements on toxicology were derived from the properties of the individual components.

## SECTION 12: Ecological information

### 12.1 Toxicity

The product has not been tested. The statement is derived from the properties of the single components.

### Aquatic toxicity

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

### 12.2 Persistence and degradability

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge.

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

This product does not contain components in concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

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

### 12.6 Endocrine disrupting properties

The product does not contain any substance above the legal limits that is included in the list established under Article 59(1) of Regulation (EC) No 1907/2006 on the basis of endocrine disrupting properties or that has endocrine disrupting or endocrine damaging properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7 Other adverse effects

The product does not contain any substances listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

### 12.8 Additional ecotoxicological information

**Additional information**

Do not allow uncontrolled discharge of product into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation.

### 13.2 Additional information

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

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

**EU legislation**

**Authorisations and/or restrictions on use**

**Restrictions on use**

**Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)**

Use restriction according to REACH annex XVII, no. : 75

**National regulations**

CH: Chemicals Ordinance, ChemO

**Technische Anleitung zur Reinhaltung der Luft (TA-Luft)**

Weight fraction (Number 5.2.5. I) : < 5 %

**Water hazard class**

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

**Other regulations, restrictions and prohibition regulations**

**Switzerland**

**VOCV-Regulation**

See section 9.1

### 15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this preparation. For the following substances of this mixture/preparation a chemical safety assessment has been carried out :

None

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

ADR = European Agreement concerning the carriage of Dangerous goods by Road
ADN = European Agreement concerning the Carriage of Dangerous Goods by Inland Waterways
ATE = Estimated values for acute toxicity
AwSV = Ordinance on Installations for Handling Substances Hazardous to Water
CAS = Chemical Abstract Service Number
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CLP = EC Regulation 1272/2008
CMR = cancerogen mutagen reprotoxic
DIN = German Institute for Standardisation
DNEL = Derived No Effect Level
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EC50 = Mean effective concentration that induces a defined effect other than death in a test population
EG = European Community
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IATA = International Air Transport Association Dangerous Goods Regulation
IBC-Code = International Code for the construction and equipment of ships carrying dangerous chemicals in large quantities
IMDG = International Maritime Code for dangerous goods
ISO = International Organization for Standardization
LC50 = Lethal Concentration 50%
LD50 = Lethal dose 50%

MAK = Maximum workplace concentration
MARPOL = International Convention for the Protection of the Marine Environment from Ship-generated Litter
NOEC = No Observed Effect Concentration
OECD = Organisation for Economic Cooperation and Development
PBT = Persistent, bioaccumulative and toxic
pH = potential of hydrogen
PNEC = Predicted no effect concentration
PPM = parts per million
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals (EC Regulation 1907/2006)
RID = Regulation concerning the international transport of dangerous goods by train
TRGS = Technical rules for hazardous substances (german rules)
TWA = Time-weighted average exposure limit
UN-Number = UN number for the transport of dangerous goods
vPvB = Very Persistent and very Bioaccumulative as for REACH Regulation
VOC = Volatile organic Compounds

## 16.3 Key literature references and sources for data

None

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

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

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

None

## 16.6 Training advice

None

## 16.7 Additional information

None

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