

**SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006**

**SODIUM CARBONATE**

Version 10.0

Print Date 2022/12/28

Revision date / valid from 2022/12/28

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

**1.1. Product identifier**

Trade name : SODIUM CARBONATE  
 Substance name : sodium carbonate  
 Index-No. : 011-005-00-2  
 CAS-No. : 497-19-8  
 EC-No. : 207-838-8  
 EU REACH-Reg. No. : 01-2119485498-19-xxxx

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

Use of the Substance/Mixture : Pharmaceuticals, Food additive, Cosmetic additive, photochemicals, Glass industry, Formulation, Industrial use, Professional use  
 Uses advised against : At this moment we have not identified any uses advised against

**1.3. Details of the supplier of the safety data sheet**

Company : Supplies for Candles & The Soap Kitchen Ltd Unit E Swinton Bridge Industrial Estate, White Lea Road, Swinton South Yorkshire S64 8BH, UK  
 Telephone : TEL: 01709 257151  
 E-mail address : customerservice@suppliesforcandles.co.uk

**1.4. Emergency telephone number**

Emergency telephone number : Emergency only telephone number (open 24 hours): TEL: 01709 257151

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification according to Regulation S.I. 2019/720 (GB CLP)**

**Regulation S.I. 2019/720 (GB CLP)**

| Hazard class   | Hazard category | Target Organs | Hazard statements |
|----------------|-----------------|---------------|-------------------|
| Eye irritation | Category 2      | ---           | H319              |

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For the full text of the H-Statements mentioned in this Section, see Section 16.

### Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical hazards : See section 9/10 for physicochemical information.

Potential environmental effects : See section 12 for environmental information.

## 2.2. Label elements

### Labelling according to Regulation S.I. 2019/720 (GB CLP)

Hazard symbols : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements

Prevention : P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.

Response : P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Hazardous components which must be listed on the label:

- sodium carbonate

## 2.3. Other hazards

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This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: No information available about endocrine disruption properties for environment.

Toxicological information: No information available about endocrine disruption properties for human health.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

| Hazardous components |                         | Amount [%]    | Classification<br>(Regulation S.I. 2019/720 (GB CLP)) |                   |
|----------------------|-------------------------|---------------|-------------------------------------------------------|-------------------|
|                      |                         |               | Hazard class / Hazard category                        | Hazard statements |
| sodium carbonate     |                         |               |                                                       |                   |
| Index-No.            | : 011-005-00-2          | >= 90 - < 100 | Eye Irrit.2                                           | H319              |
| CAS-No.              | : 497-19-8              |               |                                                       |                   |
| EC-No.               | : 207-838-8             |               |                                                       |                   |
| EU REACH-            | : 01-2119485498-19-xxxx |               |                                                       |                   |
| Reg. No.             |                         |               |                                                       |                   |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                         |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : Take off all contaminated clothing immediately.                                                                                                                          |
| If inhaled              | : Remove to fresh air. If symptoms persist, call a physician.                                                                                                              |
| In case of skin contact | : Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.                                                                       |
| In case of eye contact  | : Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible. |
| If swallowed            | : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.               |

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

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Symptoms : See Section 11 for more detailed information on health effects and symptoms.

Effects : See Section 11 for more detailed information on health effects and symptoms.

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

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.

Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO<sub>2</sub>)

### **5.3. Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.

Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes.

### **6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

### **6.3. Methods and materials for containment and cleaning up**

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal"

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considerations".

### 6.4. Reference to other sections

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

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

Requirements for storage areas and containers : Store in original container. Suitable materials for containers: polyethylene; Unsuitable materials for containers: Aluminium

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place. Product is hygroscopic.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store near acids.

### 7.3. Specific end use(s)

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.  
Contains no substances with occupational exposure limit values.

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|            |                  |                  |
|------------|------------------|------------------|
| Component: | sodium carbonate | CAS-No. 497-19-8 |
|------------|------------------|------------------|

### Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL

Workers, Long-term - local effects, Inhalation : 10 mg/m<sup>3</sup>

DNEL

Consumers, Acute - local effects, Inhalation : 10 mg/m<sup>3</sup>

### Predicted No Effect Concentration (PNEC)

No PNEC value was derived. :

## 8.2. Exposure controls

### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

### Personal protective equipment

#### *Respiratory protection*

Advice : Required, if exposure limit is exceeded (e.g. OEL).  
Respiratory protection complying with EN 141.  
Respirator with a dust filter  
Particle filter:P2  
Particle filter:P3

#### *Hand protection*

Advice : Protective gloves complying with EN 374.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Protective gloves should be replaced at first signs of wear.

Material : Natural Rubber  
Break through time : >= 8 h  
Glove thickness : 0.5 mm

Material : polychloroprene  
Break through time : >= 8 h  
Glove thickness : 0.5 mm

Material : Nitrile rubber  
Break through time : >= 8 h

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Glove thickness : 0.35 mm

Material : Fluorinated rubber  
Break through time :  $\geq 8$  h  
Glove thickness : 0.4 mm

Material : Polyvinylchloride  
Break through time :  $\geq 8$  h  
Glove thickness : 0.5 mm

### *Eye protection*

Advice : Safety goggles

### *Skin and body protection*

Advice : Wear personal protective equipment.

### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form : solid

Physical state : solid

Colour : white

Odour : odourless

Odour Threshold : No data available

Melting point/range : 851 °C

Boiling point/boiling range : 1,600 °C

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit / Upper flammability limit : The product is not flammable.

Lower explosion limit / Lower flammability limit : The product is not flammable.

Flash point : Not applicable

Auto-ignition temperature : No data available

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|                                                    |   |                                                                                                  |
|----------------------------------------------------|---|--------------------------------------------------------------------------------------------------|
| Decomposition temperature                          | : | > 400 °C                                                                                         |
| Self-Accelerating decomposition temperature (SADT) | : | No data available                                                                                |
| pH                                                 | : | 11.2 (20 °C)<br>Concentration: 1 g/l                                                             |
| Viscosity                                          |   |                                                                                                  |
| Viscosity, dynamic                                 | : | Not applicable                                                                                   |
| Viscosity, kinematic                               | : | Not applicable                                                                                   |
| Flow time                                          | : | No data available                                                                                |
| Solubility(ies)                                    |   |                                                                                                  |
| Water solubility                                   | : | 212.5 g/l (20 °C)<br>Method: OECD Test Guideline 105<br><br>71 g/l (0 °C)                        |
| Solubility in other solvents                       | : | No data available                                                                                |
| Dissolution Rate                                   | : | No data available                                                                                |
| Partition coefficient: n-octanol/water             | : | No data available                                                                                |
| Dispersion Stability                               | : | No data available                                                                                |
| Vapour pressure                                    | : | Not applicable                                                                                   |
| Relative density                                   | : | 2.52 (20 °C)<br>Method: EU Method A.3                                                            |
| Density                                            | : | No data available                                                                                |
| Bulk density                                       | : | 0.5 - 0.6 kg/dm <sup>3</sup> Light soda ash<br><br>0.97 - 1.10 kg/dm <sup>3</sup> Dense soda ash |
| Relative vapour density                            | : | No data available                                                                                |
| Particle characteristics                           |   | No data available                                                                                |

### 9.2 Other information

|                  |   |           |
|------------------|---|-----------|
| Molecular weight | : | 106 g/mol |
|------------------|---|-----------|

## SECTION 10: Stability and reactivity



## SODIUM CARBONATE

### 10.1. Reactivity

Advice : No decomposition if stored and applied as directed.

### 10.2. Chemical stability

Advice : Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions : Product is hygroscopic. Contact with acids liberates carbon dioxide. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

### 10.4. Conditions to avoid

Conditions to avoid : Protect from humidity and keep away from water.  
Thermal decomposition : > 400 °C

### 10.5. Incompatible materials

Materials to avoid : Acids, Light metals, Aluminium powder

### 10.6. Hazardous decomposition products

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008

| Component:     | sodium carbonate                                                                                       | CAS-No. 497-19-8 |
|----------------|--------------------------------------------------------------------------------------------------------|------------------|
| Acute toxicity |                                                                                                        |                  |
| Oral           |                                                                                                        |                  |
| LD50           | : 2800 mg/kg (Rat, male and female)                                                                    |                  |
| Inhalation     |                                                                                                        |                  |
| LC50           | : 2300 mg/m³ (Rat, male; 2 h; dust/mist) (OECD Test Guideline 403)Inhalation may cause pain and cough. |                  |
| Dermal         |                                                                                                        |                  |
| LD50           | : > 2000 mg/kg (Rabbit) (EPA 16 CFR 1500)                                                              |                  |
| Irritation     |                                                                                                        |                  |
| Skin           |                                                                                                        |                  |

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Result : No skin irritation (Rabbit) (OECD Test Guideline 404)

### Eyes

Result : Irritating to eyes. (Rabbit) (OECD Test Guideline 405)

### Sensitisation

Result : not sensitizing

### CMR effects

#### CMR Properties

Carcinogenicity : Study scientifically not justified.  
Mutagenicity : In vitro tests did not show mutagenic effects  
Teratogenicity : Animal testing did not show any effects on foetal development.  
Reproductive toxicity : Study scientifically not justified.

### Specific Target Organ Toxicity

#### Single exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Repeated exposure

Remarks : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Other toxic properties

#### Repeated dose toxicity

; Sodium carbonate dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, repeated dose toxicity studies are considered (scientifically) unnecessary, in accordance with column 2 of REACH Annex VIII and IX.

### Aspiration hazard

Not applicable,

#### 11.2. Information on other hazards

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### Data for the product

#### Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

## SECTION 12: Ecological information

### 12.1. Toxicity

|            |                  |                  |
|------------|------------------|------------------|
| Component: | sodium carbonate | CAS-No. 497-19-8 |
|------------|------------------|------------------|

#### Acute toxicity

##### Fish

LC50 : 300 mg/l (Lepomis macrochirus (Bluegill sunfish), mortality; 96 h) (static test)

#### Toxicity to daphnia and other aquatic invertebrates

EC50 : 200 - 227 mg/l (Ceriodaphnia dubia (water flea), Immobilization; 48 h) (semi-static test)

##### algae

: Study scientifically unjustified.

##### Bacteria

: Study scientifically unjustified.

### 12.2. Persistence and degradability

|            |                  |                  |
|------------|------------------|------------------|
| Component: | sodium carbonate | CAS-No. 497-19-8 |
|------------|------------------|------------------|

#### Persistence and degradability

##### Persistence

Result : decomposition by hydrolysis.

##### Biodegradability

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Result : The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

|                 |                  |                  |
|-----------------|------------------|------------------|
| Component:      | sodium carbonate | CAS-No. 497-19-8 |
| Bioaccumulation |                  |                  |

Result : Bioaccumulation is not expected.

### 12.4. Mobility in soil

|            |                  |                  |
|------------|------------------|------------------|
| Component: | sodium carbonate | CAS-No. 497-19-8 |
| Mobility   |                  |                  |

Water : The product is water soluble.  
Air : not volatile

### 12.5. Results of PBT and vPvB assessment

|                                    |
|------------------------------------|
| Data for the product               |
| Results of PBT and vPvB assessment |

Result : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

|                                    |                  |                  |
|------------------------------------|------------------|------------------|
| Component:                         | sodium carbonate | CAS-No. 497-19-8 |
| Results of PBT and vPvB assessment |                  |                  |

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

### 12.6. Endocrine disrupting properties

| Data for the product           |                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------|
| Endocrine disrupting potential | : No information available about endocrine disruption properties for environment. |

### 12.7. Other adverse effects

|                                   |
|-----------------------------------|
| Data for the product              |
| Additional ecological information |

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Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

Result :

|                   |                         |                         |
|-------------------|-------------------------|-------------------------|
| <b>Component:</b> | <b>sodium carbonate</b> | <b>CAS-No. 497-19-8</b> |
|-------------------|-------------------------|-------------------------|

### **Additional ecological information**

Result : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

## **SECTION 14: Transport information**

Not dangerous goods for ADR, RID, IMDG and IATA.

### **14.1. UN number or ID number**

Not applicable.

### **14.2. UN proper shipping name**

Not applicable.

### **14.3. Transport hazard class(es)**

Not applicable.

### **14.4. Packaging group**

Not applicable.

### **14.5. Environmental hazards**

Not applicable.

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### 14.6. Special precautions for user

Not applicable.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

|                   |                         |                         |
|-------------------|-------------------------|-------------------------|
| <b>Component:</b> | <b>sodium carbonate</b> | <b>CAS-No. 497-19-8</b> |
|-------------------|-------------------------|-------------------------|

EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture does not fall under this legislation.

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 207-838-8; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

#### Notification status sodium carbonate:

|                 |              |                     |
|-----------------|--------------|---------------------|
| Regulatory List | Notification | Notification number |
| AICS            | YES          |                     |
| DSL             | YES          |                     |
| EINECS          | YES          | 207-838-8           |

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|            |     |            |
|------------|-----|------------|
| ENCS (JP)  | YES | (1)-164    |
| IECSC      | YES |            |
| INSQ       | YES |            |
| ISHL (JP)  | YES | (1)-164    |
| KECI (KR)  | YES | KE-31380   |
| NZIOC      | YES | HSR003265  |
| ONT INV    | YES |            |
| PHARM (JP) | YES |            |
| PICCS (PH) | YES |            |
| TCSI       | YES |            |
| TH INV     | YES | 2836.20    |
| TH INV     | YES | 55-1-03923 |
| TSCA       | YES |            |
| VN INV L   | YES |            |

### 15.2. Chemical safety assessment

No data available

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3.

H319 Causes serious eye irritation.

### Full text of the Notes referred to under section 3.

### Abbreviations and Acronyms

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| <b>AU AIICL</b>  | Australia. Industrial Chemicals Act (AIIC) List                         |
| <b>BCF</b>       | bioconcentration factor                                                 |
| <b>BOD</b>       | biochemical oxygen demand                                               |
| <b>CAS</b>       | Chemical Abstracts Service                                              |
| <b>CLP</b>       | Classification, Labelling and Packaging                                 |
| <b>CMR</b>       | carcinogenic, mutagenic or toxic to reproduction                        |
| <b>COD</b>       | chemical oxygen demand                                                  |
| <b>DNEL</b>      | derived no-effect level                                                 |
| <b>DSL</b>       | Canada. Environmental Protection Act, Domestic Substances List          |
| <b>EINECS</b>    | European Inventory of Existing Commercial Chemical Substances           |
| <b>ELINCS</b>    | European List of Notified Chemical Substances                           |
| <b>ENCS (JP)</b> | Japan. Kashin-Hou Law List                                              |
| <b>GHS</b>       | Globally Harmonized System of Classification and Labelling of Chemicals |
| <b>IECSC</b>     | China. Inventory of Existing Chemical Substances                        |
| <b>INSQ</b>      | Mexico. National Inventory of Chemical Substances                       |

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|                            |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| <b>ISHL (JP)</b>           | Japan. Inventory of Industrial Safety & Health                                                  |
| <b>KECI (KR)</b>           | Korea. Existing Chemicals Inventory                                                             |
| <b>LC50</b>                | median lethal concentration                                                                     |
| <b>LOAEC</b>               | lowest observed adverse effect concentration                                                    |
| <b>LOAEL</b>               | lowest observed adverse effect level                                                            |
| <b>LOEL</b>                | lowest observed effect level                                                                    |
| <b>NDSL</b>                | Canada. Environmental Protection Act. Non-Domestic Substances List                              |
| <b>NLP</b>                 | no-longer polymer                                                                               |
| <b>NOAEC</b>               | no observed adverse effect concentration                                                        |
| <b>NOAEL</b>               | no observed adverse effect level                                                                |
| <b>NOEC</b>                | no observed effect concentration                                                                |
| <b>NOEL</b>                | no observed effect level                                                                        |
| <b>NZIOC</b>               | New Zealand. Inventory of Chemicals                                                             |
| <b>OECD</b>                | Organisation for Economic Cooperation and Development                                           |
| <b>OEL</b>                 | occupational exposure limit                                                                     |
| <b>ONT INV</b>             | Canada. Ontario Inventory List                                                                  |
| <b>PBT</b>                 | persistent, bioaccumulative and toxic                                                           |
| <b>PHARM (JP)</b>          | Japan. Pharmacopoeia Listing                                                                    |
| <b>PICCS (PH)</b>          | Philippines. Inventory of Chemicals and Chemical Substances                                     |
| <b>PNEC</b>                | predicted no-effect concentration                                                               |
| <b>REACH Auth. No.:</b>    | REACH Authorisation Number                                                                      |
| <b>REACH AuthAppC. No.</b> | REACH Authorisation Application Consultation Number                                             |
| <b>STOT</b>                | specific target organ toxicity                                                                  |
| <b>SVHC</b>                | substance of very high concern                                                                  |
| <b>TCSI</b>                | Taiwan. Existing Chemicals Inventory                                                            |
| <b>TH INV</b>              | Thailand. Existing Chemicals Inventory from FDA                                                 |
| <b>TSCA</b>                | US. Toxic Substances Control Act                                                                |
| <b>UVCB</b>                | substance of unknown or variable composition, complex reaction products or biological materials |
| <b>VN INVL</b>             | Vietnam. National Chemical Inventory                                                            |
| <b>vPvB</b>                | very persistent and very bioaccumulative                                                        |

### Further information

|                                                |   |                                                                                                                                                                                              |
|------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Key literature references and sources for data | : | Supplier information and data from the "Database of registered substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.                               |
| Methods used for product classification        | : | The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.              |
| Hints for trainings                            | : | The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National |



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regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information :

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.