acc. to Safe Work Australia - Code of Practice

#### Potassium fluoride ≥99 %, p.a.

article number: CN83 date of compilation: 2021-11-09 Version: GHS 2.0 en Revision: 2024-03-04

Replaces version of: 2021-11-09

Version: (GHS 1)

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

#### **Product identifier** 1.1

Identification of the substance **Potassium fluoride** ≥99 %, p.a.

Article number **CN83** 

CAS number 7789-23-3

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

#### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment

sheet:

sicherheit@carlroth.de e-mail (competent person):

#### **Emergency telephone number** 1.4

| Name   | Street          | Postal code/city        | Telephone | Website |
|--|-----------------|-------------------------|-----------|---------|
| NSW Poisons Information Centre<br>Childrens Hospital | Hawkesbury Road | 2145 West-<br>mead, NSW | 131126    |         |

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification acc. to GHS

| Section | Hazard class                      | Cat-<br>egory | Hazard class and category | Hazard<br>statement |
|---------|-----------------------------------|---------------|---------------------------|---------------------|
| 3.10    | Acute toxicity (oral)             | 3             | Acute Tox. 3              | H301                |
| 3.1D    | Acute toxicity (dermal)           | 3             | Acute Tox. 3              | H311                |
| 3.1I    | Acute toxicity (inhal.)           | 3             | Acute Tox. 3              | H331                |
| 3.3     | Serious eye damage/eye irritation | 1             | Eye Dam. 1                | H318                |

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For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

#### Labelling

Signal word Danger

#### **Pictograms**

GHS05, GHS06



#### **Hazard statements**

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

H318 Causes serious eye damage

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P280 Wear protective gloves/protective clothing

#### **Precautionary statements - response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfort-

able for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P330 Rinse mouth

#### **Precautionary statements - storage**

P403+P233 Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary statements - disposal**

P501 Dispose of contents/container to industrial combustion plant

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

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## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Name of substance Potassium fluoride

Molecular formula FK

Molar mass  $58.1 \, {}^{9}\!I_{mol}$  CAS No 7789-23-3

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off immediately all contaminated clothing. Self-protection of the first aider.

#### Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

#### **Following skin contact**

After contact with skin, wash immediately with plenty of water.

#### Following 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. Call a physician immediately.

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

Risk of blindness, Risk of serious damage to eyes

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

none

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

water jet

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

Non-combustible.

#### **Hazardous combustion products**

In case of fire may be liberated: Hydrogen fluoride (HF)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

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

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



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Use extractor hood (laboratory). Handle and open container with care. Avoid dust formation. Clear contaminated areas thoroughly.

#### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

## Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

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

Store in a dry place.

#### **Incompatible substances or mixtures**

Observe hints for combined storage.

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#### Consideration of other advice:

Store locked up.

#### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

#### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

#### 8.1 **Control parameters**

#### **National limit values**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

| Coun<br>try | Name of agent  | CAS No | Identifi-<br>er | TWA<br>[mg/<br>m³] | STEL<br>[mg/<br>m³] | Ceil-<br>ing-C<br>[mg/<br>m³] | Nota-<br>tion | Source |
|-------------|----------------|--------|-----------------|--------------------|---------------------|-------------------------------|---------------|--------|
| AU          | nuisance dusts |        | WES             | 10                 |                     |                               | i             | WES    |

#### Notation

TWA

Ceiling-C Ceiling value is a limit value above which exposure should not occur

Inhalable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

minute period (unless otherwise specified)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### **Human health values**

# **Relevant DNELs and other threshold levels**

| Endpoint | Threshold<br>level    | Protection goal, route of exposure | Used in           | Exposure time              |
|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| DNEL     | 0.36 mg/kg            | human, dermal                      | worker (industry) | acute - systemic effects   |
| DNEL     | 2.5 mg/m³             | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| DNEL     | 0.36 mg/kg            | human, dermal                      | worker (industry) | chronic - systemic effects |
| DNEL     | 2.5 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local effects    |

#### **Environmental values**

# Relevant PNECs and other threshold levels

| End-<br>point | Threshold<br>level                | Organism              | Environmental compartment       | Exposure time                |
|---------------|-----------------------------------|-----------------------|---------------------------------|------------------------------|
| PNEC          | 0.89 <sup>mg</sup> / <sub>l</sub> | aquatic organisms     | freshwater                      | short-term (single instance) |
| PNEC          | 51 <sup>mg</sup> / <sub>l</sub>   | aquatic organisms     | sewage treatment plant<br>(STP) | short-term (single instance) |
| PNEC          | 12 <sup>mg</sup> / <sub>kg</sub>  | terrestrial organisms | soil                            | short-term (single instance) |

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#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### **Eye/face protection**





Use safety goggle with side protection.

#### Skin protection





#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### type of material

PVC: polyvinyl chloride, CR: chloroprene (chlorobutadiene) rubber, FKM (fluoro rubber), Butyl caoutchouc (butyl rubber)

#### material thickness

0,5 mm

#### breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White).

## **Environmental exposure controls**

Keep away from drains, surface and ground water.

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

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

Physical state solid
Colour white

Odour odourless

Melting point/freezing point 846 °C at 1,013 hPa (ECHA) Boiling point or initial boiling point and boiling 1,505 °C at 1,013 hPa (ECHA)

range

Flammability non-combustible
Lower and upper explosion limit not determined
Flash point not applicable
Auto-ignition temperature not determined

pH (value) 8-9 (in aqueous solution:  $50 \, {}^{9}/_{l}$ ,  $20 \, {}^{\circ}$ C)

not relevant

Kinematic viscosity not relevant

Solubility(ies)

Water solubility 923  $g_{l}$  at 18 °C (ECHA)

Partition coefficient

Decomposition temperature

Partition coefficient n-octanol/water (log value): -0.77 (calculated value)

Vapour pressure 0.13 hPa at 752 °C

Density and/or relative density

Density 2.48 g/cm³ at 20 °C

Relative vapour density Information on this property is not available.

Bulk density ~400 kg/<sub>m³</sub>

Particle characteristics No data available.

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard hazard classes acc. to GHS (physical hazards): not relevant

Other safety characteristics: There is no additional information.

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## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

## 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Classification acc. to GHS

#### **Acute toxicity**

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

# **Acute toxicity**

| <b>Exposure route</b> | Endpoint | Value                               | Species | Method | Source |
|-----------------------|----------|-------------------------------------|---------|--------|--------|
| oral                  | LD50     | 148.5 <sup>mg</sup> / <sub>kg</sub> | rat     |        | ECHA   |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

## Symptoms related to the physical, chemical and toxicological characteristics

#### If swallowed

Data are not available.

#### • If in eyes

Causes serious eye damage, risk of blindness

#### If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### Other information

none

#### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq$  0,1%.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Harmful to aquatic life.

#### Aquatic toxicity (acute)

| Endpoint | Value                           | Species               | Source | Exposure<br>time |
|----------|---------------------------------|-----------------------|--------|------------------|
| EC50     | 48 <sup>mg</sup> / <sub>I</sub> | aquatic invertebrates | ECHA   | 96 h             |

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

| n-octanol/water (log KOW) | -0.77 (Calculated value) |
|---------------------------|--------------------------|
|---------------------------|--------------------------|

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\geq 0.1\%$ .

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Data are not available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### Relevant provisions relating to waste(Basel Convention)

#### Properties of waste which render it hazardous

**H6.1** Poisonous (Acute)

#### 13.3 Remarks

ICAO-TI

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

## **SECTION 14: Transport information**

| 14.1 | UN number                  |                           |
|------|----------------------------|---------------------------|
|      | UN RTDG                    | UN 1812                   |
|      | IMDG-Code                  | UN 1812                   |
|      | ICAO-TI                    | UN 1812                   |
| 14.2 | UN proper shipping name    |                           |
|      | UN RTDG                    | POTASSIUM FLUORIDE, SOLID |
|      | IMDG-Code                  | POTASSIUM FLUORIDE, SOLID |
|      | ICAO-TI                    | Potassium fluoride, solid |
| 14.3 | Transport hazard class(es) |                           |
|      | UN RTDG                    | 6.1                       |
|      | IMDG-Code                  | 6.1                       |
|      | ICAO-TI                    | 6.1                       |
| 14.4 | Packing group              |                           |
|      | UN RTDG                    | III                       |
|      | IMDG-Code                  | III                       |

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III

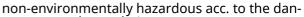


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14.5 Environmental hazards

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gerous goods regulations

#### 14.6 Special precautions for user

There is no additional information.

#### 14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### 14.8 Information for each of the UN Model Regulations

Transport informationNational regulationsAdditional information(UN RTDG)

UN number 1812
Class 6.1
Packing group III
Danger label(s) 6.1

Special provisions (SP)

UN RTDG

Excepted quantities (EQ)

ŪN RTDG

Limited quantities (LQ) 5 kg

5 kg UN RTDG

**Emergency Action Code** 2X

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name POTASSIUM FLUORIDE, SOLID

Particulars in the shipper's declaration UN1812, POTASSIUM FLUORIDE, SOLID, 6.1, III

Marine pollutant -

Danger label(s) 6.1

Special provisions (SP)

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

EmS F-A, S-A

Stowage category A

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## International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Potassium fluoride, solid

Particulars in the shipper's declaration UN1812, Potassium fluoride, solid, 6.1, III

Danger label(s) 6.1



Excepted quantities (EQ) E1

Limited quantities (LQ) 10 kg

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture There is no additional information.

National regulations(Australia)

Australian Inventory of Chemical Substances(AICS)

Substance is listed.

#### Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

## **National inventories**

| Country | Inventory  | Status                       |  |
|---------|------------|------------------------------|--|
| AU      | AIIC       | substance is listed          |  |
| CA      | DSL        | substance is listed          |  |
| CN      | IECSC      | substance is listed          |  |
| EU      | ECSI       | substance is listed          |  |
| EU      | REACH Reg. | substance is listed          |  |
| JP      | CSCL-ENCS  | substance is listed          |  |
| KR      | KECI       | substance is listed          |  |
| MX      | INSQ       | substance is listed          |  |
| NZ      | NZIoC      | substance is listed          |  |
| PH      | PICCS      | substance is listed          |  |
| TW      | TCSI       | substance is listed          |  |
| US      | TSCA       | substance is listed (ACTIVE) |  |
| VN      | NCI        | substance is listed          |  |

Legend

AIIC

Australian Inventory of Industrial Chemicals List of Existing and New Chemical Substances (CSCL-ENCS) CSCL-ENCS DSL ECSI

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances

Korea Existing Chemicals Inventory National Chemical Inventory

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Legend

NZIOC New Zealand Inventory of Chemicals
PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory
TSCA Toxic Substance Control Act

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## **SECTION 16: Other information**

## Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value)   | Safety-<br>relev-<br>ant |
|---------|---------------------------|---|--------------------------|
| 2.3     |                           | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%. | yes                      |
| 14.8    |                           | Emergency Action Code:<br>2X  | yes                      |
| 15.1    |                           | National inventories:<br>change in the listing (table)  | yes                      |

#### **Abbreviations and acronyms**

| Abbr.     | Descriptions of used abbreviations   |  |
|-----------|--|--|
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |  |
| Ceiling-C | -C Ceiling value   |  |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)   |  |
| DNEL      | Derived No-Effect Level  |  |
| EC50      | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |  |
| ED        | Endocrine disruptor  |  |
| EINECS    | European Inventory of Existing Commercial Chemical Substances  |  |
| ELINCS    | European List of Notified Chemical Substances  |  |
| EmS       | Emergency Schedule   |  |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  |  |
| IATA      | International Air Transport Association  |  |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |  |
| ICAO      | International Civil Aviation Organization  |  |
| ICAO-TI   | Technical instructions for the safe transport of dangerous goods by air  |  |
| IMDG      | International Maritime Dangerous Goods Code  |  |
| IMDG-Code | International Maritime Dangerous Goods Code  |  |
| LD50      | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval   |  |

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| Abbr.   | Descriptions of used abbreviations  |
|---------|---|
| NLP     | No-Longer Polymer   |
| PBT     | Persistent, Bioaccumulative and Toxic                                       |
| PNEC    | Predicted No-Effect Concentration   |
| STEL    | Short-term exposure limit   |
| TWA     | Time-weighted average   |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good                       |
| vPvB    | Very Persistent and very Bioaccumulative                                    |
| WES     | Safe Work Australia: Workplace exposure standards for airborne contaminants |

#### Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                        |
|------|-----------------------------|
| H301 | Toxic if swallowed.         |
| H311 | Toxic in contact with skin. |
| H318 | Causes serious eye damage.  |
| H331 | Toxic if inhaled.           |

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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