# SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 5.2 Revision Date 06/27/2014 Print Date 11/20/2018

# **1. PRODUCT AND COMPANY IDENTIFICATION**

#### 1.1 Product identifiers Product name

| Product Number<br>Brand<br>Index-No. | : 45631<br>: Sigma-/<br>: 613-128 |      |
|--------------------------------------|-----------------------------------|------|
| CAS-No.                              | : 67747-0                         | )9-5 |

:

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

Prochloraz

Identified uses : Laboratory chemicals, Manufacture of substances

# 1.3 Details of the supplier of the safety data sheet

| Company          | : | Sigma-Aldrich<br>3050 Spruce Street<br>SAINT LOUIS MO 63103<br>USA |
|------------------|---|--|
| Telephone<br>Fax | - | +1 800-325-5832<br>+1 800-325-5052                                 |

#### 1.4 Emergency telephone number

| Emergency Phone # | : | +1-703-527-3887 | (CHEMTREC) |
|-------------------|---|-----------------|------------|
|-------------------|---|-----------------|------------|

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

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

### 2.2 GHS Label elements, including precautionary statements

Pictogram

Cianal word



| Signal word                         | warning  |
|-------------------------------------|--|
| Hazard statement(s)<br>H302<br>H410 | Harmful if swallowed.<br>Very toxic to aquatic life with long lasting effects. |
| Precautionary statement(s)          |  |
| P264                                | Wash skin thoroughly after handling.   |
| P270                                | Do not eat, drink or smoke when using this product.                            |
| P273                                | Avoid release to the environment.  |
| P301 + P312                         | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you                 |
|                                     | feel unwell.   |
| P330                                | Rinse mouth.   |
| P391                                | Collect spillage.  |
| P501                                | Dispose of contents/ container to an approved waste disposal plant.            |
|                                     |  |

Sigma-Aldrich - 45631

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

| Formula          | : | C <sub>15</sub> H <sub>16</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>2</sub> |
|------------------|---|---|
| Molecular Weight | : | 376.67 g/mol  |
| CAS-No.          | : | 67747-09-5  |
| EC-No.           | : | 266-994-5   |
| Index-No.        | : | 613-128-00-2  |

#### Hazardous components

| Component                             | Classification                               | Concentration |
|---------------------------------------|--|---------------|
| Prochloraz                            |  |               |
|                                       | Acute Tox. 4; Aquatic Acute 1;               | -             |
|                                       | Aquatic Chronic 1; H302,                     |               |
|                                       | H410   |               |
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For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3** Indication of any immediate medical attention and special treatment needed no data available

# **5. FIREFIGHTING MEASURES**

### 5.1 Extinguishing media

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas Nature of decomposition products not known. Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

# **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further information

no data available

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

# 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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

| a) | Appearance   | Form: solid<br>Colour: colourless |
|----|--|-----------------------------------|
| b) | Odour  | no data available                 |
| c) | Odour Threshold                                    | no data available                 |
| d) | рН   | no data available                 |
| e) | Melting point/freezing point                       | no data available                 |
| f) | Initial boiling point and boiling range            | no data available                 |
| g) | Flash point  | no data available                 |
| h) | Evapouration rate                                  | no data available                 |
| i) | Flammability (solid, gas)                          | no data available                 |
| j) | Upper/lower<br>flammability or<br>explosive limits | no data available                 |
| k) | Vapour pressure                                    | no data available                 |
| I) | Vapour density                                     | no data available                 |
| m) | Relative density                                   | no data available                 |
| n) | Water solubility                                   | insoluble                         |
| o) | Partition coefficient: n-<br>octanol/water         | no data available                 |
| p) | Auto-ignition<br>temperature                       | no data available                 |
| q) | Decomposition<br>temperature                       | no data available                 |
| r) | Viscosity  | no data available                 |
| s) | Explosive properties                               | no data available                 |
| t) | Oxidizing properties                               | no data available                 |
|    | ner safety information                             |                                   |

# no data available

# **10. STABILITY AND REACTIVITY**

## 10.1 Reactivity

9.2

no data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** no data available
- **10.5** Incompatible materials Strong oxidizing agents
- **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

### Acute toxicity

LD50 Oral - rat - 1,600 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - > 3,000 mg/kg

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

**Respiratory or skin sensitisation** no data available

#### Germ cell mutagenicity

no data available

#### Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

no data available

no data available

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information RTECS: NI4000400 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **12. ECOLOGICAL INFORMATION**

12.1 Toxicity

no data available

- 12.2 Persistence and degradability no data available
- **12.3 Bioaccumulative potential** no data available
- 12.4 Mobility in soil no data available

#### **12.5 Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

#### **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Prochloraz) Marine pollutant: Marine pollutant

#### ΙΑΤΑ

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Prochloraz)

#### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## **15. REGULATORY INFORMATION**

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards Acute Health Hazard

Acute Health Hazard

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

| Pennsylvania Right To Know Components |            |                      |
|---------------------------------------|------------|----------------------|
|                                       | CAS-No.    | <b>Revision Date</b> |
| Prochloraz                            | 67747-09-5 | 2007-03-01           |
| New Jersey Right To Know Components   |            |                      |
|                                       | CAS-No.    | Revision Date        |
| Prochloraz                            | 67747-09-5 | 2007-03-01           |
|                                       |            |                      |

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

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

| Acute Tox.      | Acute toxicity  |
|-----------------|---|
| Aquatic Acute   | Acute aquatic toxicity                                |
| Aquatic Chronic | Chronic aquatic toxicity                              |
| H302            | Harmful if swallowed.                                 |
| H400            | Very toxic to aquatic life.                           |
| H410            | Very toxic to aquatic life with long lasting effects. |

## **HMIS Rating**

| Health hazard:                | 1      |
|-------------------------------|--------|
| Chronic Health Hazard:        |        |
| Flammability:                 | 0      |
| Physical Hazard               | 0      |
|                               |        |
| NFPA Rating                   |        |
| NFPA Rating<br>Health hazard: | 1      |
| 0                             | 1<br>0 |

#### Further information

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#### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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