

**Prochloraz, reference material****R1788-100MG**

Version 1.0

Issuing date 12/02/2019

Revision Date 12/09/2019

Print Date 08/03/2021

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Prochloraz, reference material

Number : 000000005317

Recommended use of the chemical and restrictions on use : Laboratory chemicals, Reference Standard

Manufacturer or supplier's details : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
Seelze, 30926

For further information, please contact: : 1-800-368-0050  
+1-231-726-3171  
(Monday-Friday, 9:00am-5:00pm)

**In case of emergency call :** **Medical: 1-800-498-5701 or +1-303-389-1414**  
**Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887**  
**In Japan: +(81)-345209637**  
: (24 hours/day, 7 days/week)

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Classification of the substance or mixture : Acute toxicity, Category 4, Oral  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

**GHS Label elements, including precautionary statements**

Symbol(s)

:



Signal word

: Warning

Hazard statements

: Harmful if swallowed.  
Very toxic to aquatic life with long lasting effects.

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## Precautionary statements

: **Prevention:**

Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Wear protective gloves/ eye protection/ face protection.

**Response:**

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
Collect spillage.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**Formula : C<sub>15</sub>H<sub>16</sub>Cl<sub>3</sub>N<sub>3</sub>O<sub>2</sub>

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Prochloraz	67747-09-5	<=100.00 %
Prochloraz		

Note: none

**4. FIRST AID MEASURES**

## General advice

: First aider needs to protect himself.  
Move out of dangerous area.  
Take off all contaminated clothing immediately.

## Inhalation

: If breathed in, move person into fresh air.  
Call a physician if irritation develops or persists.

## Skin contact

: Wash off immediately with plenty of water for at least 15 minutes.  
Take off all contaminated clothing immediately.  
Call a physician if irritation develops or persists.

## Eye contact

: Rinse thoroughly with plenty of water, also under the eyelids.  
Protect unharmed eye.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

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- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.  
Consult a physician.
- Notes to physician : Treat symptomatically.

**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Water spray  
ABC powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:  
carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>).  
Hydrogen chloride gas
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.  
No unprotected exposed skin areas.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Wear personal protective equipment. Unprotected persons must be kept away.  
Ensure adequate ventilation.  
Avoid dust formation.  
Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Discharge into the environment must be avoided.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Sweep up and shovel into suitable containers for disposal.

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Dispose of in accordance with local regulations.

**7. HANDLING AND STORAGE****Handling**

Precautions for safe handling : Use only in well-ventilated areas.  
Wear personal protective equipment.  
Avoid contact with skin, eyes and clothing.

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

**Storage**

Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
Store at room temperature.  
(Ambient temperature: > 0 < 35°C)

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection : Impervious gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Eye protection : Safety glasses with side-shields

Skin and body protection : Wear suitable protective equipment.  
Wear as appropriate:  
Protective suit

Hygiene measures : General industrial hygiene practice.

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Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.  
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : powder

Colour : white

Odour : odourless

pH : Note: no data available

Melting point/range : 46.3 - 50.3 °C

Boiling point/boiling range : Note: Decomposes below the boiling point.

Flash point : Note: Not applicable

Evaporation rate : Note: no data available

Flammability : no data available

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

Vapour pressure :  
Note: no data available

Vapour density : Note: no data available

Density : Note: no data available

Specific gravity : 1.42 at 20 - 25 °C

**Prochloraz, reference material****R1788-100MG**

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Water solubility : 34.4 mg/l at 20 - 25 °C

Partition coefficient: n-octanol/water : log Pow: 3.53

Decomposition temperature : Note: No decomposition if stored and applied as directed.

Viscosity, dynamic : Note: no data available

Viscosity, kinematic : Note: no data available

Molecular weight : 376.7 g/mol

Bulk density : Note: no data available

**10. STABILITY AND REACTIVITY**

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Avoid dust formation.

Incompatible materials to avoid : Strong oxidizing agents

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:  
carbon oxides (CO, CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Hydrogen chloride gas

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity : LD50: 1,020 mg/kg  
Species: Rat

Acute inhalation toxicity : LC50: > 2.16 mg/l  
6/11

**Prochloraz, reference material****R1788-100MG**

Version 1.0

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	Exposure time: 4 h Species: Rat
Acute dermal toxicity	: LD50: > 2,100 mg/kg Species: Rat
Skin irritation	: Species: Rabbit Result: non-irritant
Eye irritation	: Species: Rabbit Result: non-irritant
Sensitisation	: Species: Guinea pig Result: Not a skin sensitizer.
Repeated dose toxicity	: Note: Not classified due to data which are conclusive although insufficient for classification.
Genotoxicity in vitro	: Note: no data available
Carcinogenicity	: Species: not specified Note: Not classified due to data which are conclusive although insufficient for classification.
Reproductive toxicity	: Species: not specified Note: Not classified due to data which are conclusive although insufficient for classification.

**12. ECOLOGICAL INFORMATION****Toxicity**

Toxicity to fish	: LC50: 1.5 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates	: LC50: 4.3 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)

**Prochloraz, reference material****R1788-100MG**

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Toxicity to algae : EC50: > 0.032 mg/l  
Exposure time: 72 h  
Species: scenedesmus subspicatus

**Persistence and degradability**

Biodegradability : Note: Not readily biodegradable.

**Other adverse effects**

Additional ecological information : Very toxic to aquatic life with long lasting effects.

**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

**14. TRANSPORT INFORMATION****ADR**

UN/ID No. : UN 3077  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.

(PROCHLORAZ)

Class : 9  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9

**IATA**

UN/ID No. : UN 3077  
Description of the goods : Environmentally hazardous substance, solid, n.o.s.  
(Prochloraz)

Class : 9  
Packing group : III  
Labels : 9



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Packing instruction (cargo aircraft) : 956  
Packing instruction (passenger aircraft) : 956  
Packing instruction (passenger aircraft) : Y956

**IMDG**

UN/ID No. : UN 3077  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (PROCHLORAZ)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
Marine pollutant : yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

**15. REGULATORY INFORMATION****National regulatory information**

Vessel Safety Law  
JP VSL : Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

Aviation Law  
JP AVL : Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

Fire Service Law : Not relevant

Poisonous and Deleterious  
Substances Control Law : Not relevant

Act on Confirmation, etc. of : Class II Designated Chemical Substances

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Release Amounts of Specific  
Chemical Substances in the  
Environment and Promotion  
of Improvements to the  
Management Thereof

80  
Prochloraz 67747-09-5

**Other international regulations****Notification status**

US. Toxic Substances  
Control Act : Not On TSCA Inventory

Australia. Industrial Chemical  
(Notification and  
Assessment) Act : On the inventory, or in compliance with the inventory

Canada. Canadian  
Environmental Protection Act  
(CEPA). Domestic  
Substances List (DSL) : Not in compliance with the inventory

Japan. Kashin-Hou Law List : Not in compliance with the inventory

Korea. Existing Chemicals  
Inventory (KECI) : On the inventory, or in compliance with the inventory

Philippines. The Toxic  
Substances and Hazardous  
and Nuclear Waste Control  
Act : Not in compliance with the inventory

China. Inventory of Existing  
Chemical Substances  
(IECSC) : Not in compliance with the inventory

New Zealand. Inventory of  
Chemicals (NZIoC), as  
published by ERMA New  
Zealand : On the inventory, or in compliance with the inventory

**16. OTHER INFORMATION****Further information**

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group