

**Haloxon, reference material**  
**R1083-10MG**

Version 1.0

Issuing date 10/19/2018

Revision Date 11/21/2018

Print Date 08/07/2019

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

Trade name : Haloxon, reference material

Number : 000000018293

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

**GHS Label elements, including precautionary statements**

Symbol(s) :



Signal word : Warning

Hazard statements : Harmful if swallowed.

Precautionary statements : **Prevention:**  
Wash skin thoroughly after handling.

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Do not eat, drink or smoke when using this product.

**Response:**

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

**Disposal:**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula : C<sub>14</sub>H<sub>14</sub>Cl<sub>3</sub>O<sub>6</sub>P

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Haloxon	321-55-1	<=100.00 %
Haloxon		

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 : Remove to fresh air.  
If respiratory problems develop, obtain medical attention.
- Skin contact : After contact with skin, wash immediately with plenty of water.  
If skin irritation persists, call a physician.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids.  
If eye irritation persists, consult a specialist.
- Ingestion : Rinse mouth with water.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Notes to physician : Treat symptomatically.

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**5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- 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> ).  
Hydrogen chloride gas  
Phosphorus oxides (eg Phosphorus pentoxide)
- Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.
- 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 : Evacuate personnel to safe areas.  
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.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Sweep up and shovel into suitable containers for disposal.  
Dispose of in accordance with local regulations.

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

- Precautions for safe handling : Wear personal protective equipment.  
Use only in well-ventilated areas.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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**Storage**

Conditions for safe storage, including any incompatibilities : Store in original container.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

**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 : Protective gloves  
Gloves must be inspected prior to use.  
Replace when worn.

Eye protection : Safety glasses

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

Hygiene measures : General industrial hygiene practice.

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.  
Avoid breathing dust.  
Avoid contact with skin, eyes and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : powder

Colour : white

Odour : odourless

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pH : Note: no data available

Melting point/range : 87 °C

Boiling point/boiling range : Note: no data available

Flash point : Note: no data available

Evaporation rate : Note: no data available

Lower explosion limit : Note: no data available

Upper explosion limit : Note: no data available

Vapour pressure :  
Note: no data available

Density : Note: no data available

Water solubility : Note: no data available

Partition coefficient: n-  
octanol/water : Note: no data available

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 : 415.59 g/mol

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**10. STABILITY AND REACTIVITY**

Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials to avoid	: No information available.
Hazardous decomposition products	: carbon oxides (CO, CO <sub>2</sub> ). Hydrogen chloride gas Oxides of phosphorus

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50: 900 mg/kg Species: Rat
Acute inhalation toxicity	: Note: no data available
Acute dermal toxicity	: LD50: > 6,000 mg/kg Species: Rabbit
Skin irritation	: Note: no data available
Eye irritation	: Note: no data available
Sensitisation	: Note: no data available
Repeated dose toxicity	: Note: no data available
Genotoxicity in vitro	: Note: no data available
Aspiration toxicity	: no data available

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

Toxicity to fish : Note: no data available

Toxicity to daphnia and other aquatic invertebrates : Note: no data available

Toxicity to algae : Note: no data available

**Persistence and degradability**

Biodegradability : Note: no data available

**Bioaccumulative potential**

Bioaccumulation : Note: no data available

**13. DISPOSAL CONSIDERATIONS**

Disposal methods : In accordance with local and national regulations.

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

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**RID**

Not dangerous goods

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

Fire Service Law : Not relevant

Poisonous and Deleterious  
Substances Control Law : Not relevant**Other international regulations****Notification status**US. Toxic Substances  
Control Act : Not On TSCA InventoryAustralia. Industrial Chemical  
(Notification and  
Assessment) Act : On the inventory, or in compliance with the inventoryCanada. 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) : Not in compliance with the inventoryPhilippines. The Toxic  
Substances and Hazardous  
and Nuclear Waste Control  
Act : Not in compliance with the inventoryChina. Inventory of Existing  
Chemical Substances : Not in compliance with the inventoryNew Zealand. Inventory of  
Chemicals (NZIoC), as  
published by ERMA New  
Zealand : Not in compliance with the inventory



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

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