

This safety data sheet was created pursuant to the requirements of: HPR, Schedule 1

Revision date 21-May-2024 Revision Number 1

1. Identification

Product identifier

Product Name Ciclopirox Olamine

Other means of identification

Product Code(s) LGCFOR0418.00

Recommended use of the chemical and restrictions on use

Recommended use Laboratory use

Restrictions on use No information available

Details of the supplier of the safety data sheet

Initial supplier identifier

Toronto Research Chemicals 2 Brisbane Road Toronto, ON M3J 2J8

Emergency number: +1(416) 665-9696 between 0800-1700 (GMT-5)

Fax: +14166654439 Web: www.trc-canada.com

E-mail sds-request@lgcgroup.com

Emergency telephone number

Emergency Telephone

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

2. Hazard identification

Classification

Classification according to WHIMIS

Olassification decorating to Williams			
Skin corrosion/irritation	Category 2		
Serious eye damage/eye irritation	Category 2A		
Specific target organ toxicity — single exposure	Category 3		



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Specific target organ toxicity — repeated exposure	Category 2
Oxidising solids	Category 2

Label elements

Danger

Hazard statements

Classification according to WHIMIS
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
May intensify fire; oxidiser



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Use only outdoors or in a well-ventilated area
Do not breathe dust, fume, gas, mist, vapors and spray
Keep/Store away from clothing and other combustible materials
Wear protective gloves, protective clothing, eye protection and face protection
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

Eves

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

Skin

IF ON SKIN: Wash with plenty of water and soap

If skin irritation occurs: Get medical advice and attention

Take off all contaminated clothing and wash it before reuse

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTRE or doctor if you feel unwell

Fire

In case of fire: Use water spray for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up



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Precautionary Statements - Disposal

Dispose of contents and container to an approved waste disposal plant

Other information

No information available.

3. Composition/information on ingredients

Substance

Formula C12H17NO2·C2H7NO

Chemical name	CAS No.	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review Act date exemption granted	
			registry number	(if applicable)
			(HMIRA registry #)	
Ciclopirox Olamine	41621-49-2	90 - 100%	-	

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water

before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash

contaminated clothing before reuse. Wash off immediately with soap and plenty of water for

at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Use personal protective

equipment as required. See section 8 for more information. Avoid contact with skin, eyes or

clothing.

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Burning sensation.



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Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

5. Fire-fighting measures

Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

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Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Dry chemical. Foam.

Specific hazards arising from the

chemical

These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil,

clothing, etc.). Runoff may create fire or explosion hazard.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. Oxidiser. May ignite combustibles (wood paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel

to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective

equipment as required.

Other information Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET

WATER INSIDE CONTAINERS. Ventilate the area. Refer to protective measures listed in

Sections 7 and 8.



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Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with DRY earth, DRY sand or other

non-combustible material followed with plastic sheet to minimise spreading or contact with

rain.

Methods for cleaning up With clean shovel place material into clean, dry container and cover loosely; move

containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. Cover powder spill with plastic sheet or tarp to minimise spreading and

keep powder dry.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Do not store near combustible materials. Store in accordance with the

particular national regulations. Store in accordance with local regulations.

8. Exposure controls/personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment



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Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing

safety goggles.

Hand protection Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply

with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear

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protective nitrile rubber gloves. Polyvinyl chloride (PVC).

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Wear

fire/flame resistant/retardant clothing.

No protective equipment is needed under normal use conditions. If exposure limits are Respiratory protection

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this General hygiene considerations

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks

and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state Solid Appearance Powder Colour white to yellow Odour Odourless

Odour threshold No information available

Property Values Remarks • Method

No data available None known pН 135 - 143 °C / 275 - 289.4 °F Melting point / freezing point None known Initial boiling point and boiling rangeNo data available None known Flash point No data available None known **Evaporation rate** No data available None known **Flammability** No data available None known None known

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

No data available Vapour pressure None known Relative vapour density No data available None known 0.41 Relative density None known No data available

Water solubility None known Solubility in other solvents No data available None known



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Partition coefficient0.52None knownAutoignition temperatureNo data availableNone known

Decomposition temperature No data available None known

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

Other information

Explosive properties
Oxidising properties
No information available.
No information available.
No information available

Molecular weight 268.36

VOC content

Liquid Density

Bulk density

No information available
No information available
No information available

10. Stability and reactivity

Reactivity

Oxidiser.

Chemical stability

May cause fire or explosion; strong oxidiser.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks. Incompatible materials.

Incompatible materials

Organic material. Combustible material. Hydrocarbons. Strong acids. Strong bases. Strong oxidising agents.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.



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Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

Component Information

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
C	Ciclopirox Olamine 41621-49-2	= 2350 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.



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Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient	
Ciclopirox Olamine	0.52	
41621-49-2		

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local

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regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

TDG

UN number or ID number UN1479

UN proper shipping name Oxidising solid, n.o.s. (Ciclopirox Olamine)

Transport hazard class(es) 5.1
Packing group II
Special Provisions 16, 68
Marine pollutant NP.

Description UN1479, Oxidising solid, n.o.s. (Ciclopirox Olamine), 5.1, II

DOT

UN number or ID number UN1479

Extended proper shipping name Oxidising solid, n.o.s. (Ciclopirox Olamine)

Transport hazard class(es) 5.1
Packing group II
DOT Marine Pollutant NP.

Description UN1479, Oxidising solid, n.o.s. (Ciclopirox Olamine), 5.1, II

Special Provisions 62, IB8, IP2, IP4, T3, TP33

Emergency Response Guide 140

Number

MEX



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UN number or ID number UN1479

UN proper shipping name Oxidising solid, n.o.s. (Ciclopirox Olamine)

Transport hazard class(es) 5.1
Packing group

Description UN1479, Oxidising solid, n.o.s. (Ciclopirox Olamine), 5.1, II

Special Provisions 274

IATA

UN number UN1479

UN proper shipping name Oxidising solid, n.o.s. (Ciclopirox Olamine)

Transport hazard class(es) 5.1
Packing group II
ERG Code 5L
Special Provisions A3, A803

Description UN1479, Oxidising solid, n.o.s. (Ciclopirox Olamine), 5.1, II

IMDG

UN number UN1479

UN proper shipping name Oxidising solid, n.o.s. (Ciclopirox Olamine)

Transport hazard class(es) 5.1
Packing group II
EmS-No. F-A, S-Q
Special Provisions 274, 900

Marine pollutant NP

Description UN1479, Oxidising solid, n.o.s. (Ciclopirox Olamine), 5.1, II

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA LGC has not confirmed that the chemical substances in this product are on the TSCA

Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided

at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the

requirements that apply to its use of this product.

DSL/NDSL
Contact supplier for inventory compliance status.

EINECS/ELINCS
Contact supplier for inventory compliance status.

ENCS
Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.



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PICCS Contact supplier for inventory compliance status. Contact supplier for inventory compliance status. AIIC

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. Other information

NFPA Health hazards 2 Special hazards OX Flammability 0 Instability 1 Health hazards 2 * Flammability 0 Physical hazards 1 Personal protection X HMIS

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Skin designation Sk*

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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Revision Note No information available.



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Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

End of Safety Data Sheet