

Safety Data Sheet

DuroCide C-100G

1. IDENTIFICATION

Product name	DuroCide C-100G
Description	Solid DBNPA
Product class	Biocide
Supplier address	5130 Rialto Road West Chester, OH 45069
Telephone numbers	
<u>Company Phone Number</u>	(866) 489-9831
<u>Emergency Telephone</u>	CHEMTEL (800) 255-3924

2. HAZARDS IDENTIFICATION

Hazard classification	Acute Toxicity: Oral, Category 3 Skin Irritation, Category 2 Serious Eye Damage, Category 1 Skin Sensitization, Category 1 Aquatic Environment Toxicity: Acute, Category 1 Aquatic Environment Toxicity: Chronic, Category 1
Signal word	Danger
Hazard statements	Toxic if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Pictograms of related hazards



Precautionary statements

Prevention

- Wash skin thoroughly after handling.
- Do not eat, drink, or smoke when using this product.
- Wear protective gloves, protective clothing, eye protection, and face protection.
- Avoid breathing fumes, mist, vapors, or spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.

Response

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately contact a POISON CENTER or health care provider.

IF ON SKIN: Wash with soap and water.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately contact a POISON CENTER or health care provider.

If skin irritation or a rash occurs: Get medical attention.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with local, state, and federal regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
2,2-Dibromo-3-nitrilo-propionamide (DBNPA)	10222-01-2	>98

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
Skin contact	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.
Inhalation	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.
Note to health care provider	Esophageal corrosion may contraindicate the use of gastric lavage and/or activated charcoal.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, foam, dry chemical, carbon dioxide
Unsuitable extinguishing media	No information available
Protective equipment and precautions for firefighters	Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be used. Use water to cool closed containers. Contain water runoff if possible.
Specific hazards	Combustion may produce toxic gases.
Hazardous combustion products	Carbon oxides, nitrogen oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate the area of all non-essential personnel. Do not touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe to do so. Avoid contact with eyes.
Methods for clean-up	
<u>Small spills</u>	Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.
<u>Large spills</u>	Contain spill using trenches, diking, or absorption with an inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper disposal.

7. HANDLING AND STORAGE

Advice on safe handling	Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash hands thoroughly after handling.
Storage conditions	Store in a cool, dry, well-ventilated area away from incompatible materials. Keep containers closed when not in use.
Suitable materials of construction	No information available
Unsuitable materials of construction	No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection	Chemical splash goggles
Skin protection	Chemical-resistant gloves and body-covering clothing
Respiratory protection	Observe published airborne exposure limits. NIOSH approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).
Engineering controls	Adequate ventilation, eye-wash station, and emergency shower
General hygiene considerations	Do not eat, drink, or smoke while handling this product. Wash hands thoroughly after handling.

Chemical Name	OSHA PEL	ACGIH TLV
2,2-Dibromo-3-nitrilo-propionamide (DBNPA)	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	No information available
Appearance	White solid
Odor	Mild
Odor Threshold	No information available
Melting/freezing point	255.2-258.8°F (124-126°C)
Initial boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available

Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
VOC content	No information available
Specific gravity	No information available
Solubility	No information available
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under normal conditions of storage and handling.
Hazardous polymerization	Polymerization will not occur.
Conditions to avoid	Extreme temperatures, incompatibilities
Incompatibilities	Strong acids, oxidizers
Hazardous decomposition products	No known non-thermal decomposition hazards.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity

DuroCide C-100G

Parameter	Result
LD50, Oral (rat)	308 mg/kg
LD50, Dermal (rabbit)	>2,000 mg/kg
LC50, Inhalation (rat)	0.275 mg/L/4hr
Draize, Skin (rabbit)	Moderate irritant
Draize, Eye (rabbit)	Very severe irritant
Ames Test	Not mutagenic

Acute symptoms and effects

Eye	Eye irritation with or without pain, burning, itching, redness, discharge, and serious eye damage.
Skin	Skin irritation with or without pain, burning, itching, redness, and swelling. Symptoms may be exacerbated by open wounds, excoriations, rashes, or other skin breaches.
Ingestion	Gastrointestinal distress with or without nausea, vomiting, and diarrhea.
Inhalation	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip.

Reproductive effects	No information available
Teratogenicity	No information available
Mutagenicity	No information available
Embryotoxicity	No information available
Sensitization to product	May cause allergic reaction or delayed hypersensitivity in susceptible individuals.
Synergistic products	No information available
Carcinogenicity	No components have been identified as carcinogenic by OSHA, NTP, or IARC.
Chronic	No information available

12. ECOLOGICAL INFORMATION

Aquatic toxicity

DuroCide C-100G

Parameter	Result
96 hr LC50, Bluegill sunfish	1.0-1.6 ppm
96 hr LC50, Rainbow trout	1.8-3.2 ppm
96 hr LC50, Fathead minnow	0.45-0.62 ppm
96 hr LC50, Sheepshead Minnow	1.0-2.0 ppm
48 hr EC50, Daphnia magna	0.56-1.0 ppm
48 hr LC50, Mysid shrimp	0.72 mg/L
21 day NOEC, Daphnia magna	0.06 mg/L

Persistence	No information available
Bioaccumulative potential	No information available
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Disposal	Dispose of in accordance with federal, state, and local regulations.
RCRA status	As sold, discarded product would be considered a RCRA hazardous waste based on the corrosive characteristics. The EPA hazardous waste number is D002.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (contains 2,2-Dibromo-3-nitrilo-propionamide (DBNPA))
Primary hazard class/division	9
Secondary hazard	
Packing group	III
Label	Misc

15. REGULATORY INFORMATION

OSHA Hazard Communication Status Acute Toxicity: Oral, Category 3
Skin Irritation, Category 2
Serious Eye Damage, Category 1
Skin Sensitization, Category 1
Aquatic Environment Toxicity: Acute, Category 1
Aquatic Environment Toxicity: Chronic, Category 1

EPA Registration Number 12487-21-55400

TSCA The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA

EPA Hazardous Substances (40 CFR 302)

Chemical Name	Reportable Quantity (RQ)
2,2-Dibromo-3-nitrilo-propionamide (DBNPA)	None

SARA Title III (Sections 302, 311, 312, and 313)

Section 302 Extremely Hazardous Substances (40 CFR 355)

Chemical Name	CAS#	RQ	TPQ
None			

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
2,2-Dibromo-3-nitrilo-propionamide (DBNPA)	10222-01-2	>98

California Prop 65

Chemical Name	CAS Number	Hazard
None		

16. OTHER INFORMATION

HMIS Ratings Health—3; Flammability—0; Reactivity—0
NFPA Ratings Health—3; Flammability—0; Reactivity—0
HMIS/NFPA Rating Scale Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
SDS Issue Date 3/10/2022
Revision Date 8/22/2025
Version 2

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