

11411 Williamson Road Cincinnati, OH 45241

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Rating Scale

4 = Extreme

2 = Moderate

0 = Insignificant

3 = High

1 = Slight

Phone: 866-489-9831

SAFETY DATA SHEET

I. IDENTIFICATION

GHS Product Identifier:

Synonyms: General Description:

SDS Identification Code:

Revision Date:

24 hour Emergency Response:

Recommended Use:

ChemTel. Inc.

1-800-255-3924 (US) 1-813-248-0585 (Int'I)

DUROCIDE C100-G

A microbiocidal bactericide, fungicide, algicide and slimicide.

Reactivity

Personal Protection

Fire

HMIS Rating

in treating industrial cooling water systems and pulp & paper

mills.

DBNPA

Biocide

210113

01/20/2014

II. HAZARD IDENTIFICATION

Hazard Classification:

Acute toxicity (oral, dermal) 4

Eye Damage 1 Skin Irritation 2 Skin Sensitisation 1 Aquatic acute 1

Signal Word:

Hazard Statement(s):

Danger H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction H318 Causes serious eye damage H400 Very toxic to aquatic life

Pictograms of related hazards:







Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce

vomiting.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P304 + P340- IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

Description of other Hazards:

Eye: Corrosive.

Dermal: Irritant. May cause skin sensitization

Inhalation: Irritating to upper respiratory tract. In severe cases pulmonary edema

may be developed

Ingestion: Irritating to mouth and gastrointestinal tract

III. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s) CAS Number Approximate Wt.

2,2-dibromo-3-nitrilopropionamide 10222-01-2 98

IV. FIRST-AID MEASURES

Eye contact Holding the eyelids apart, flush eyes promptly with copious flowing water for at

least 20 minutes. Get medical attention immediately.

Skin contact Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control

center or doctor for treatment advice.

Inhalation In case of dust inhalation or breathing fumes released from heated material, remove

person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and

get medical attention immediately.

Ingestion If swallowed, wash mouth thoroughly with plenty of water and give water to drink.

Get medical attention immediately. Never give an unconscious person anything to drink.

Note to Physicians: In case of ingestion, DO NOT induce vomiting. No specific antidote. Treat

symptomatically and supportively.

V. FIRE-FIGHTING MEASURES

Extinguishing Media: Material is not combustible. Use extinguishing media appropriate to

surrounding fire conditions.

Fire and Explosion Hazards: Not Available

Hazardous products of combustion: When heated to decomposition, may release poisonous and corrosive

fumes.

Fire Fighting Equipment: Cool containers with water spray. Fire fighters should wear full

protective clothing and self-contained breathing apparatus (SCBA)

in positive pressure mode.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear self-contained breathing apparatus, full PVC clothing, PVC gloves

and boots.

Environmental Precautions:

Prevent entry into sewers and watercourses

Methods for clean-up:

Small Spill: Sweep up, place in a bag and hold for waste disposal or possible

re-use Avoid raising dust. Ventilate area and wash spill site after

material pickup is complete.

Large Spill: Not Available

VII. HANDLING AND STORAGE

Handling: Keep containers tightly closed. Avoid producing or diffusing dust

into the air.

Incompatible products: Not Available

Engineering Measures: Not Available

Storage: Store in a dry, cool, well-ventilated and shaded area, way from

heat sources, away from incompatible materials (see "materials

to avoid").

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

2,2-Dibromo-3-nitrilopropionamide

OSHA Permissble Exposure Limits (PELs):

Not Available

American Conference of Governmental Industrial Hygienists (ACGIH):

Not Available

Threshold Limit Values (TLVs):

Not Available

Other Exposure Limits:

Not Available

Note: The product was tested for "Particle size distribution". Results showed that it is noninhalable.

Engineering Controls:

Ventilation must be sufficient to maintain atmospheric concentration

below recommended exposure limit.

Personal Protection:

Eye Protection:

Chemical safety goggles

Hand Protection:

Protective gloves

Skin Protection:

Body covering clothes and boots

Respiratory Protection:

Any air-purifying respirator with a high-efficiency particulate filter.

Personal Protection Index:











IX. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Test Used (if applicable)
Appearance:	White to off-white crystalline	
	solid or powder of mild antiseptic odor	
Odor:	N/d	
Odor Threshold:	N/A	
pH(neat, 10%, or 1%):	N/d	
Specific Gravity:	2.375 (21°C)	
Relative Density:	N/A	
Melting/Freezing Point:	123 – 125 C	
Initial Boiling Point and boiling range:	Not applicable (decomposes)	
Flash Point:	N/A	
Solubility (water):	17±0.05 g/l at 25.7°C	
Solubility in other solvents	acetone - 35 g/100g	
	ethanol - 25 g/100g	
	dimethyl formamide - 120 g/100g	
	polyethylene glycol (Mw 200) - 120) g/100g
Intrinsic Viscosity:	N/A	
Flammability (solid, gas):	N/A	
Upper/Lower flammability limits:	N/A	
Vapor Pressure:	8.25x10(-4) mmHg (25°C)	
Vapor Density:	Not applicable under standard con-	ditions
Evaporation rate:	Not applicable under standard con-	ditions
Auto-ignition Temperature:	N/A	
Decomposition Temperature:	190°C	
Partition coefficient: n-octanol/water:	Equivalent Kow = 6.3	

Note: These physical properties are typical values for this product and not specifications.

X. STABILITY AND REACTIVITY

Reactivity Data:

Decomposes when heated above decomposition temperature.

Chemical Stability:

Stability under normal conditions:

Yes

Stabilizers needed:

N/A

Other Information:

Conditions to avoid:

Keep away from light and heat

Heating above decomposition temperature

Materials to avoid: Hazardous reactions: Oxidizing agents, reducing agents
Hazardous polymerization will not occur

Hazardous reactions:
Hazardous decomposition products:

Br2, HBr, CNBr, NOx, C2H5Br, CH3Br

XI. TOXICOLOGICAL INFORMATION

Acute Toxicity:

- Rat oral LD50

308 mg/kg

- Rabbit dermal LD50

>2,000 mg/kg

- Rat inhalation LC50

0.32 mg/l/4 hour (powder)

Skin Corrosion/Irritation:

Moderate irritant

Serious Eye Damage/Irritation:

Corrosive

Respiratory or Skin Sensitization:

Produces 100% sensitization rate (Magnusson & Kligman maximisation

study)

Germ Cell Mutagenicity:

Genotoxicity

Not mutagenic by the Ames Test

Did not induce DNA repair synthesis in the hepatocytes of male rats in vitro. Not clastogenic in chromosome aberration test with Human lymphocytes. Not clastogenic in chromosome aberration test with

Chinese hamster cells

Carcinogenicity:

Not classified by IARC

Reproductive Toxicity:

In a 2-generation study in rats, the NOEL for reproduction parameters

was ≥ 30 mg/kg/day.

Teratogenicity

Not teratogenic. The NOAEL (for fetal toxicity in rabbits) = 10 mg/kg/day.

STOT-single exposure:

No effects on specific target organs have been identified

Not included in NTP 11th Report on Carcinogens

STOT-repeated exposure:

Excessive repeated exposure may increase the blood and tissue levels of bromine. NOEL 5 mg/kg/day (13 weeks oral, rat)

Not expected to occur

XII. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity:

Aspiration Hazard:

- 96 Hour-LC50, Fish

2.3 mg/l Rainbow trout (Salmo gairdneri)

3.4 mg/l Sheepshead minnow (Pimephales promelas)
2.3 mg/l Bluegill sunfish (Lepomis macrochorus)
0.72 mg/l Mysid shrimp (Mysidopsis bahia)
0.37 mg/l Eastern oyster (Crassostrea virginica)

- 48 Hour-EC50, Daphnia magna

0.86 mg/l

Avian toxicity:

- Oral LD50, Bobwhite quail - Dietary LC50, Mallard duck

354 mg/kg > 5,620 ppm

- Dietary LC50, Bobwhite quail

> 5.620 ppm

Persistence and Degradability:

Not readily biodegradable according to EU criteria, however studies have

shown that this substance will degrade under realistic conditions.

Bioaccumulative Potential:

Not expected to bioaccumulate

Mobility in Soil:

Expected to be mobile in soil

Other Adverse Effects:

Germany, water endangering classes (WGK) 3

XIII. DISPOSAL CONSIDERATIONS

Recommended Disposal Containers:

N/A

Recommended Disposal Methods:

Observe all federal, state and local environmental

regulations when disposing of this material.

Physical and Chemical Properties that Affect Disposal:

Sewage Disposal:

N/A N/A

Special Precautions for Landfills or Incineration:

N/A

XIV. TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:



Transportation Mode:

DOT

DOT Status:

Not Regulated for Non-bulk. For Bulk - Regulated

UN/ID Number:

UN3077

Proper Shipping Name:

Environmentally hazardous substance, solid, n.o.s

Technical Name:

2,2-dibromo-3-nitrilopropionamide 9, Miscellaneous Hazardous Material

Hazard Class (subclass):

9, W

Packing Group:

IATA/ICAO

Transportation Mode: IATA/ICAO Status:

Not Regulated for Non-bulk. For Bulk - Regulated

UN/ID Number:

UN3077

Proper Shipping Name:

Environmentally hazardous substance, solid, n.o.s

Technical Name:

2.2-dibromo-3-nitrilopropionamide

Hazard Class (subclass):

9. Miscellaneous Hazardous Material

Packing Group:

- 111

Transportation Mode:

IMDG

IMDG Status:

Not Regulated for Non-bulk. For Bulk - Regulated

UN/ID Number:

UN3077

Proper Shipping Name:

Environmentally hazardous substance, solid, n.o.s

Technical Name: Hazard Class (subclass): 2,2-dibromo-3-nitrilopropionamide 9, Miscellaneous Hazardous Material

Packing Group:

III

Other Information:

Harmonized Tariff Number:

Not Available

Flash Point:

Not Available Not Available

RQ lbs: RQ Component(s):

Not Available

XV. REGULATORY INFORMATION

The following regulations apply to this product:

Federal Regulations:

This product is subject to registration under FIFRA, EPA Reg. No. 88714-6.

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

OSHA's Hazard Communication Rule, 219 CFR 1910.1200: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SARA TITLE III: Section 302 Extremely Hazardous Substances - None (40 CFR 355)

Section 311/312 Hazardous Categories – Immediate, delayed (40CFR 370.2)

Section 313 Toxic Chemicals – On October 27, 1995, EPA published an administrative stay of the EPCRA section 313 reporting requirements for this chemical. Therefore, no Toxics Release Inventory reports are required for 2,2-dibromo-3-nitrilopropionamide until the stay is removed (40 CFR 372.65)

State Regulations:

California Proposition 65: This product does not contain any chemicals which require warning under California Proposition 65.

There are no known additional requirements necessary for compliance with State Right to Know Regulations.

International Regulations:

Australia

Listed in AICS

Canada

Listed in NDSL

China inventory

Listed

EU

Reported in EINECS

Korea

Listed in the Korea Existing Chemicals Inventory (KECI), number KE-09944

New Zealand Inventory

Listed in NZI

Philippines

Listed in PICCS

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not yet been carried out under the

REACH Regulation.

EU DIRECTIVES

The active substance (DBNPA) is supported by ICL-IP Europe B.V. under the Biocidal Products Directive (98/8/EC). The 20% formulations have been registered and/ or notified in various Member States for industrial Product Types applications. For further information, please contact your ICL-IP sales representative.

XVI. OTHER INFORMATION

Revision Date:

03/20/2014

Revision Number:

1

Reason for revision:

New

EPA REGISTRATION NUMBER: 88714-6-55400

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

Prepared By:

L. Rice