CHEMSTREAM



Safety Data Sheet

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER:

Clearal 242

OTHER IDENTIFIERS:

Microbiocidal bactericide, fungicide, algicide, and slimicide

CHEMICAL CLASS:

Biocide

DISTRIBUTED BY:

Chemstream, Inc. 511 Railroad Ave Homer City, PA 15748

PHONE NUMBERS:

Business – (724) 915-8388 (business hours)

CHEMTREC - (800) 424-9300 (transportation emergencies)

SECTION 2 - HAZARDS IDENTIFICATION

Hazard classification

Acute Toxicity: Oral, Category 4 Serious

Eye Damage, Category 1 Skin Sensitization, Category 1 Aquatic

Environment Toxicity: Acute, Category 2

Signal word

Hazard statements

Danger

Harmful if swallowed. Causes serious eye damage. May cause an allergic skin

reaction. Toxic to aquatic life.

Pictograms of 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

Rinse mouth. IF SWALLOWED: Contact a POISON CENTER or health care provider if you feel unwell. 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

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CENTER or health care provider. IF ON SKIN: Wash with soap and water. If skin irritation or a rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

Disposal

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	<u>%</u>	CAS No.
2,2-Dibromo-3-nitrilo-propionamide (DBNPA)	20	10222-01-2
Polyethylene glycol (PEG)	50	25322-68-3

SECTION 4 - FIRST AID MEASURES

Eye contact Immediately flush eyes with plenty of w.
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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 Remove contaminated clothing and wash the

affected area with soap and water. Wash contaminated clothing before reuse.

Ingestion If swallowed, DO NOT induce vomiting.

> Rinse mouth and get 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.

SECTION 5 - FIRE FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media Protective equipment and precautions for firefighters

Dry chemical, carbon dioxide, water spray

No information available

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** Nitrogen oxides, hydrogen bromide, bromine

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SECTION 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

Small spills Contain spill and decontaminate with 10%

sodium bicarbonate solution. Soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or

surface water.

Large spills 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.

SECTION 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

Unsuitable materials of construction

No information available No information available

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/face protection

Skin protection

Respiratory protection

Chemical splash goggles

Chemical-resistant gloves and body-covering clothing 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.

Chemical Name

2,2-Dibromo-3-nitrilo-propionamide (DBNPA)

Polyethylene glycol (PEG)

OSHA PEL

None established

None established

ACGIH TLV

None established None established

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Ha 2.78-2.88 (10% solution)

Appearance Clear yellow to amber liquid

Odor Characteristic

Odor Threshold No information available

Melting/freezing point -5°F - -10°F (-20.6°C - -23.3°C)

Initial boiling point/boiling range >158°F (70°C)

Flash point 318-329°F (158-165°C) **Evaporation rate** No information available Flammability (solid, gas) No information available

Upper/Lower flammability or No information available

explosive limits Vapor pressure 0.00004 mm Hg Vapor density < 1 [air = 1]

VOC content No information available

Specific gravity 1.200-1.300 Solubility Complete

Partition coefficient No information available

n-octanol/water **Auto-ignition temperature** No information available

Decomposition temperature > 158°F (70°C)

Viscosity No information available

SECTION 10 - STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions of storage

and handling.

Hazardous polymerization Polymerization will not occur. Conditions to avoid

Exposure to light, heat, incompatibilities **Incompatibilities** Bases, oxidizing agents, reducing agents

Hazardous decomposition products No known non-thermal decomposition

hazards.

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity

2,2-Dibromo-3-nitrilo-propionamide (DBNPA)

Parameter Result

LD50, Intravenous (mouse) 10 mg/kg LD50, Oral (unspecified mammal) 118 mg/kg

Draize, Skin (rabbit) Moderate irritant Draize, Eye (rabbit) Very severe irritant

Ames Test Not mutagenic Sensitization Extreme sensitizer

Acute symptoms and effects

Eye Eye irritation with or without pain, burning,

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and local regulations. Do not discharge into

sewer or surface water.

RCRA status

Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

SECTION 15 - REGULATORY INFORMATION

OSHA Hazard Communication Status Acute Toxicity: Oral, Category 4 Serious

> Eye Damage, Category 1 Skin Sensitization, Category 1 Aquatic

Environment Toxicity: Acute, Category 2

EPA Registration Number 88714-2-92757

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

2,2-Dibromo-3-nitrilo-propionamide (DBNPA)

Polyethylene glycol (PEG)

Reportable Quantity (RQ)

None 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

No

No

No

No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name

CAS Number

Percent by Weight

2.2-Dibromo-3-nitrilo-

10222-01-2

20

propionamide (DBNPA)

SECTION 16 - OTHER INFORMATION

HMIS Ratings NFPA Ratings HMIS/NFPA Rating Scale Health—2; Flammability—1; Reactivity—0 Health—2; Flammability—1; Reactivity—0

Minimal—0; Slight—1; Moderate—2;

Serious—3; Severe—4

PREPARATION DATE: May 1, 2017

SUPERCEDES: New SDS REASON FOR REVISION: N/A

The product information contained herein is believed to be accurate as of the date of the Safety Data Sheet, and is provided without warranty, expressed or implied, as to the results of use of this information or the product to which it relates. Recipient assumes all responsibility for the use of this information and the use (alone or in combination with any other product), storage or disposal of the product, including any resultant personal injury or property damage.