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THE NATIONAL COLLOID COMPANY

906 Adams Street
Steubenville, OH 43952
(740) 282-1171

For emergency assistance, call INFOTRAC at 1-800-535-5053

Safety Data Sheet

Microcontrol 15N

1. IDENTIFICATION

Product name	Microcontrol 15N
Description	Isothiazolin solution
Product class	Biocide
Supplier address	906 Adams Street Steubenville, OH 43952
Telephone numbers	
<u>Company Phone Number</u>	(740) 282-1171
<u>Emergency Telephone</u>	INFOTRAC 800-535-5053

2. HAZARDS IDENTIFICATION

Hazard classification	Skin Corrosion, Category 1 Serious Eye Damage, Category 1 Skin Sensitization, Category 1 Carcinogenicity, Category 1B (Ingestion) Aquatic Environment Toxicity: Acute, Category 2
Signal word	Danger
Hazard statements	Causes severe skin burns and eye damage. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer if ingested. Toxic to aquatic life.

Pictograms of related hazards



Precautionary statements

Prevention

Do not breathe fumes, mist, vapors, or spray.
Wash skin thoroughly after handling.
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.
Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.
 Use personal protective equipment as required.
 Avoid release to the environment.

Response

Wash contaminated clothing before reuse.

Specific measures:

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

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or emergency shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 ON SKIN: Wash with soap and water.

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

IF exposed or concerned: Get medical attention.

Storage

Store locked up.

Store in a closed container.

Store in a well-ventilated place. Keep cool.

Disposal

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Sodium nitrate	7631-99-4	<2.5
5-Chloro-2-methyl-2H-isothiazol-3-one with 2-methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT mix)	55965-84-9	<1.5
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	
2-Methyl-2H-isothiazol-3-one	2682-20-4	
Non-hazardous substances	Proprietary	>93

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 jet, extinguishing powder, carbon dioxide, foam
Unsuitable extinguishing media	No information available
Protective equipment and precautions for firefighters	Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential. Use water to keep fire-exposed containers cool.
Specific hazards	Combustion may produce toxic gases.
Hazardous combustion products	Carbon oxides, nitrogen oxides, sulfur dioxide, hydrogen chloride

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. Surfaces may be decontaminated with a 5% sodium hydrogensulfite and 5% sodium bicarbonate solution.
<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. Surfaces may be decontaminated with a 5% sodium hydrogensulfite and 5% sodium bicarbonate solution. In case of sewer discharge, collect contaminated water and add 10% sodium bisulfite solution.

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.
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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	Original container only is recommended.
Unsuitable materials of construction	No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection	Chemical splash goggles, face shield
Skin protection	Chemical-resistant gloves and body-covering clothing
Respiratory protection	NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134) if airborne concentrations exceed published exposure limits.
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	OSHA PEL	ACGIH TLV
Sodium nitrate	None established	None established
5-Chloro-2-methyl-2H-isothiazol-3-one with 2-methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT mix)	None established	None established
5-Chloro-2-methyl-2H-isothiazol-3-one	None established	None established
2-Methyl-2H-isothiazol-3-one	None established	None established
Non-hazardous substances	None established	None established

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	3.0-4.0
Appearance	Colorless to pale yellow liquid
Odor	Mild
Odor Threshold	No information available
Melting/freezing point	No information available
Initial boiling point/boiling range	~212°F (100°C)
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	23 mbar
Vapor density	No information available

VOC content	Below detection threshold
Specific gravity	1.015-1.035
Solubility	Complete
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. Minimum shelf life: 18 months from production date stored at 20°C.
Hazardous polymerization	Polymerization will not occur.
Conditions to avoid	Extreme temperatures, incompatibilities
Incompatibilities	Bases, reducing agents, strong oxidizing agents, nucleophiles
Hazardous decomposition products	No known non-thermal decomposition hazards.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure Skin, eyes, ingestion

Acute toxicity

Test Material	Parameter	Result
Sodium nitrate	LD ₅₀ , Oral (rat)	1,267 mg/kg
AriStat 975	LD ₅₀ , Oral (rat)	4,467 mg/kg
	LD ₅₀ , Dermal (rabbit)	>5,000 mg/kg
	Draize, Skin (rabbit)	Corrosive
	Draize, Eye (rabbit)	Corrosive
	Ames Test	Not mutagenic

Acute symptoms and effects

Eye	Severe eye irritation with serious damage including, but not limited to, tissue destruction, corneal opacification, and temporary or permanent blindness.
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. Onset of symptoms may be delayed relative to exposure.
Ingestion	Gastrointestinal distress with or without nausea, vomiting, and diarrhea. May cause irritation or corrosion of the oral and esophageal mucosa.

Inhalation	Upper respiratory irritation with or without cough, watering of the eyes, and postnasal drip. Aspiration of liquid or vomit may cause severe respiratory distress, airway corrosion, and acute lung damage.
Reproductive effects	No information available
Teratogenicity	Not teratogenic per OECD 414 / EPA 83-3a.
Mutagenicity	Not mutagenic per Ames Test.
Embryotoxicity	No information available
Sensitization to product	May cause allergic reaction or delayed hypersensitivity in susceptible individuals.
Synergistic products	No information available
Carcinogenicity	Nitrites and nitrates have been identified as probable human carcinogens by the IARC (group 2A).
Chronic	No information available

12. ECOLOGICAL INFORMATION

Test Material	Parameter	Result
5-Chloro-2-methyl-2H-isothiazol-3-one with 2-methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT mix)	3 hr EC ₅₀ , Activated sludge	0.97 mg/L
AriStat 975	96 hr LC ₅₀ , Rainbow trout	14.8 mg/L
	72 hr LC ₅₀ , Selenastrum capricornutum (algae)	1.67 mg/L
	48 hr EC ₅₀ , Daphnia magna	8.0 mg/L

Persistence	Active substance CIT/MIT is biodegradable per OECD 301 D (closed bottle test); Oxygen consumption: >60%
Bioaccumulative potential	Not expected to bioaccumulate; log Kow: -0.71 bis + 0.75
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Disposal	Dispose of in accordance with federal, state, and local regulations. Biocide and pesticide wastes are acutely hazardous. Improper disposal or excess product or rinsate is a violation of Federal law.
RCRA status	Biocide and pesticide wastes are acutely hazardous. Improper disposal or excess product or rinsate is a violation of Federal law. Contact an applicable environmental control agency, or the hazardous waste representative at your nearest EPA Regulation Office for guidance.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

UN Number UN3265
 Proper shipping name Corrosive liquid, acidic, organic, n.o.s. (contains 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one (3:1))
 Primary hazard class/division 8
 Secondary hazard None
 Packing group II
 Label Corrosive

15. REGULATORY INFORMATION

OSHA Hazard Communication Status Skin Corrosion, Category 1
 Serious Eye Damage, Category 1
 Skin Sensitization, Category 1
 Carcinogenicity, Category 1B (Ingestion)
 Aquatic Environment Toxicity: Acute, Category 2

EPA Registration Number 67071-38-12487

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	CERCLA Reportable Quantity (RQ)
Sodium nitrate	None
5-Chloro-2-methyl-2H-isothiazol-3-one with 2-methyl-2H-isothiazol-3-one (3:1) (CMIT/MIT mix)	None
5-Chloro-2-methyl-2H-isothiazol-3-one	None
2-Methyl-2H-isothiazol-3-one	None
Non-hazardous substances	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
None		

16. OTHER INFORMATION

HMIS Ratings	Health—3; Flammability—0; Reactivity—0
NFPA Ratings	Health—3; Flammability—0; Reactivity—0; Special Hazard—None
HMIS and NFPA Rating Scale	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
SDS Issue Date	January 21, 2015
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