



HASA COPPERCIDE

Material Safety Data Sheet

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarters: Hasa Inc.
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Saugus, California 91350
Telephone • 661.259.5848
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HASA COPPERCIDE
Material Safety Data Sheet (MSDS No. 312)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	Product Identification	
1.1.1	Product Name:	HASA COPPERCIDE
1.1.2	CAS # : (Chemical Abstracts Service):	41121-61-3
1.1.3	RTECS: (Registry of Toxic Effects of Chemical Substances)	No information.
1.1.4	EINECS: (European Inventory of Existing Chemical Substances)	No information.
1.1.5	Chemical Name:	A solution of a copper triethanolamine complex with copper sulfate and water.
1.1.6	Chemical Formula:	C ₆ H ₁₃ CuNO ₃ (as copper triethanolamine complex)
1.1.7	Synonym:	No information.
1.2	Recommended Use:	Algaecide.
1.3	Company Identification:	Hasa Inc. 23119 Drayton Street Saugus, California 91350
1.4	Emergency Telephone Number:	CHEMTREC: 1-800-424-9300 (24 hour)
1.5	Non-Emergency Assistance Telephone Number:	661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: EMERGENCY OVERVIEW and HAZARD IDENTIFICATION

2.1	Emergency Overview:	Do not take internally. May be harmful if swallowed or absorbed through the skin. Causes eye and mucous membrane irritation. May cause skin irritation. May cause respiratory irritation.
2.2	Hazards Acute Effects:	
2.2.1	Eye Contact:	Contact with the eyes would be expected to cause an irritation consisting of redness, swelling and mucous membrane discharge to the conjunctiva. No corneal damage or visual impairment would be expected to occur.
2.2.2	Skin Contact:	Skin contact may cause an irritation consisting of transient redness. This irritant effect would not be expected to result in permanent damage.
2.2.3	Inhalation:	If inhaled, may cause irritation to the throat, mucous membranes, upper respiratory tract, and lungs. Any irritation would be expected to be transient with no permanent damage expected.
2.2.4	Ingestion:	Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: Nausea, vomiting, lethargy or diarrhea.
2.2.5	Aggravation of Pre-existing Medical Conditions:	None known or reported.
2.3	Chronic Effects:	There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

	Ingredient	CAS No.	Weight % (Approx.)
3.1	Triethanolamine complex with copper sulfate	41121-61-3	50 - 60%
3.2	Water	7789-20-0	40 - 50%

SECTION 4: FIRST AID MEASURES

4.1.	IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
4.2.	IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • 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.
4.3.	IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
4.4.	IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES

5.1	Flammability:	Nonflammable and noncombustible.
5.2	Auto-Ignition Temperature:	Not applicable.
5.3	Flash Point:	Not applicable.
5.4	Flammable Limits:	Not applicable.
5.5	Fire Fighting Media and Procedures:	
	5.5.1 Extinguishing Media:	Use extinguishing measures appropriate to local circumstances and the surrounding environment.
	5.5.2 Fire Fighting Procedures:	This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable. Use water to cool containers exposed to fire. Additional respiratory protection is necessary when a spill or accident involving this product occurs. You are recommended to use a NIOSH/MSHA approved positive pressure supplied-air respirator. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: boots, gloves, splash-proof goggles.
5.6	Unusual Fire and Explosion Hazards:	None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Steps to be taken in case material is Spilled or Released:	Evacuate all non-essential personnel. Stop source of spill as soon as possible and notify appropriate personnel.
6.1.1	Air Release:	Vapors may be suppressed by the use of a water fog or spray. Contain all liquid for treatment or neutralization.
6.1.2	Water Release:	This material is heavier than and miscible with water. Divert water flow around spill if possible and safe to do so. If unable to divert, create a dam to contain material. Continue to handle as described in land spill.
6.1.3	Land Spill:	Create a dike or trench to contain materials. Spill materials may be absorbed using sand, clay or commercial absorbent. Do not place spill materials back in their original containers. Containerize and label all spill materials properly. Decontaminate all clothing and the spill area using a soap solution and flush with large amounts of water.
6.1.4	Spill Residues:	Dispose of per guidelines under Waste Disposal Method.
6.2	Personal Protection for Emergency Spill and Fire-Fighting Situations:	Additional respiratory protection is necessary when a spill or accident involving this product occurs. You are recommended to use a NIOSH/MSHA approved positive pressure supplied-air respirator. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: boots, gloves, splash-proof goggles.

SECTION 7: HANDLING AND STORAGE

7.1	Handling:	Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.
7.2	Storage and Disposal:	Store in a cool, dry, well-ventilated area. Do not store at temperatures above 100 °C (212 °F)

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Engineering Controls:	Local exhaust recommended if vapors, mists, or aerosols are generated, otherwise, use general exhaust ventilation.
8.2	Personal Protection Equipment:	
8.2.1	Skin and Eye Protection:	Use chemical goggles and impermeable gloves.
8.2.2	Respiratory Protection:	Respirator is not normally needed. If vapors, mists, or aerosols are generated, wear a NIOSH/MSHA approved respirator. Respirator Type: NIOSH/MSHA approved organic vapor plus dust/mist filter.
8.2.3	Protective Clothing:	Impervious type. This includes gloves, boots, apron, protective suit.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Physical State and Appearance:	Clear blue liquid.
9.2	Color:	Blue
9.3	Odor:	Odorless
9.4	Taste:	No information available.
9.5	Molecular Weight:	Not applicable as product is a mixture.
9.6	pH:	7.0
9.7	Boiling Point:	100°C (212°F)
9.8	Melting Point:	Not applicable.
9.9	Freezing Point:	0°C (32°F)
9.10	Critical Temperature:	Not applicable.
9.11	Specific Gravity: (H₂O=1)	1.3 @ 15.5°C (60°F)
9.12	Bulk Density:	Not applicable.
9.13	Density:	10.8 lb. / gallon
9.14	Vapor Pressure:	No information available.
9.15	Vapor Density:	Not pertinent.
9.16	Volatility:	50% by volume.
9.17	Water / Oil Distribution Coefficient:	Insoluble in oils.
9.18	Dispersion Properties:	Not applicable.
9.19	Solubility in Water:	Miscible.

SECTION 10: STABILITY AND REACTIVITY

10.1	Stability:	Stable at normal temperature.
10.2	Instability Temperature:	Boils at or over 100°C (212°F)
10.3	Conditions of Instability:	High temperature.
10.4	Incompatibility with Various Substances:	Oxidizers.
10.5	Hazardous Decomposition or By-products:	Carbon monoxide, carbon dioxide and oxides of nitrogen on combustion of dried product.
10.6	Sensitivity to Mechanical Impact:	Not sensitive.
10.7	Sensitivity to Static Discharge:	Not sensitive.
10.8	Hazardous Polymerization:	Will not occur.
10.9	Summary of Reactivity:	Explosive: No Oxidizer: No Pyrophoric: No Organic Peroxide: No Water Reactive: No

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Routes of Entry:	Inhalation, ingestion and dermal absorption.
11.2	Target Organ Toxicity:	Acute or Chronic: No known organs to be damaged from exposure to this product.
11.3	Animal Toxicity:	
	11.3.1 Oral (LD ₅₀):	No data.
	11.3.2 Dermal (LD ₅₀):	No data.
	11.3.3 Inhalation (LC ₅₀):	No data.
11.4	Acute Human Health Effects from Overexposure:	
	11.4.1 Eyes:	May cause eye irritation.
	11.4.2 Inhalation:	May cause respiratory irritation.
	11.4.3 Dermal:	May cause skin irritation.
	11.4.4 Ingestion:	No information.
11.5	Chronic Human Health Effects from Overexposure:	There are no known or reported effects on reproductive function or fetal development. This product is not known or reported to be mutagenic.
11.6	Carcinogenic [Cancer Potential] Information:	
	11.6.1 NTP (National Toxicological Program 6 th Annual Report on Carcinogens)	Not Listed.
	11.6.2 IARC (International Agency for Research on Cancer Monographs, V. 1-100)	Not Listed.
	11.6.3 OSHA (Occupational Safety & Health Administration)	Not Listed.
	11.6.4 ACGIH (American Conference of Governmental Industrial Hygienists)	Not Listed.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Ecotoxicity: ENVIRONMENTAL HAZARDS (PR Notice 93-10)	This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water board or Regional Office of the EPA.
12.2	Aquatic Toxicity:	No data.
12.3	Avian Toxicity:	No data.
12.4	Products of Biodegradation:	No data.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. As a non-hazardous liquid waste, it should be disposed of in accordance with local, state, and federal regulations by treatment to remove copper.

SECTION 14: TRANSPORT INFORMATION

14.1	US D.O.T.	Not regulated.
14.2	Canada TDG (Transportation of Dangerous Goods)	Not regulated.
14.3	IMO (International Maritime Organization) IMDG (International Maritime Dangerous Goods) Code	Not regulated.

SECTION 15: REGULATORY INFORMATION

15.1	U.S. Regulations:	
15.1.1	OSHA HAZCOM (Hazard Communication):	This material is considered Eye, Skin, and respiratory irritant under the HAZCOM standard (29 CFR 1910.1200).
15.1.2	OSHA PSM (Process Safety Management):	Not regulated under PSM standard (29 CFR 1910.119).
15.1.3	EPA SARA (Superfund Amendments and Reauthorization Act) Title III: Section 311/312	Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No
15.1.4	EPA TSCA (Toxic Substance Control Act):	Listed.
15.1.5	EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):	Not listed.
15.1.6	EPA FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act):	EPA REG #: 69681-12-10897.
15.1.7	EPA RMP (Risk Management Plan):	Not regulated under RMP. (40 CFR 68.130)
15.2	State of California Regulations:	
15.2.1	CDPR (California Department of Pesticide Regulation):	Registration No: 69681-12-AA-10897.
15.2.2	Cal ARP (California Accidental Release Prevention):	Not regulated.
15.3	Canada Regulations:	
15.3.1	WHMIS (Workplace Hazardous Materials Information System):	No found on WHMIS.
15.3.2	DSL (Domestic Substances List):	Not found on DSL.

SECTION 16: OTHER INFORMATION

16.1	HMIS III (Hazardous Materials Identification System):		
	16.1.1	HEALTH	1
	16.1.2	FLAMMABILITY	0
	16.1.3	PHYSICAL HAZARD	0
16.2	NFPA 704 (National Fire Protection Association):		
	16.2.1	Health	Not established.
	16.2.2	Flammability	
	16.2.3	Instability	
	16.2.4	Special	
16.3	International Fire Code / International Building Code:		No information.
16.4	ANSI (American National Standards Institute):		
	16.4.1	Hazardous Industrial Chemicals - MSDSs-Preparation:	Complies with ANSI Z400.1 – 2004.
	16.4.2	Hazardous Industrial Chemicals - Precautionary Labeling:	Complies with ANSI Z129.1 – 2006.
16.5	GHS (Globally Harmonized System):		
	16.5.1	GHS Classification:	Lack of data.
	16.5.2	GHS Symbol:	Lack of data.
	16.5.3	GHS Signal Word:	Lack of data.
	16.5.4	GHS Hazard Statement:	Lack of data.

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