



HASA COPPERCIDE

Safety Data Sheet

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Safety Data Sheet (SDS No. 312)


Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarters: Hasa Inc.
P.O. Box 802736
Santa Clarita, CA 91355
Telephone • 661.259.5848
Fax • 661.259.1538

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):	82027-59-6
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. P. O. Box 802736 Santa Clarita, CA 91355
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: HAZARD(S) IDENTIFICATION

Hazard Category	Acute Toxicity (Oral): Acute Toxicity (Inhalation) Skin corrosion / irritation: Eye irritation:	Category 4 Category 3 Category 2 Category 2B
Symbol		
Signal Word	WARNING	
Hazard Statements	Harmful if swallowed. Causes skin irritation. Causes eye irritation. Toxic if inhaled.	
Precautionary Statements	Prevention	
	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves. Avoid breathing dust / fume / gas / mist/ vapor / spray. Use only outdoors or in a well-ventilated area.	
	Response	
	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor.	
	Disposal	
Dispose of container/contents in accordance with local, regional, national, international regulations as specified.		

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

	Ingredient	CAS No.	Weight % (Approx.)
3.1	Copper Triethanolamine complex	82027-59-6	23.5%
3.2	Water	7732-18-5	76.5%

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:	This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable.
5.2	Unusual Fire and Explosion Hazards:	None.
5.3	Fire Fighting Media and Procedures:	
5.3.1	Extinguishing Media:	Use extinguishing measures appropriate to local circumstances and the surrounding environment.
5.3.2	Fire Fighting Procedures:	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.
5.3.3	Fire Fighting Protective Equipment:	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 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 container. 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:	Store in a cool, dry, well-ventilated area. Avoid contact with eyes, skin, and clothing. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.
7.2	Storage and Disposal:	Store in a cool, dry, well-ventilated area. Do not store at temperatures above 100°C (212°F). Store in original container. Avoid freezing. Mix well before using. Store away from oxidizers and away from food and feedstuff.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Engineering Controls:	Local 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:	If vapors, mists, or aerosols are generated, use a NIOSH/MSHA approved positive pressure supplied-air respirator.
8.2.3	Protective Clothing:	Impervious type. This includes gloves, boots, apron, protective suit.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Clear blue liquid.
9.2	Odor:	Odorless.
9.3	Odor Threshold:	Odorless.
9.4	pH:	7
9.5	Melting Point:	Not pertinent.
9.6	Freezing point:	0°C (32 °F)
9.7	Boiling Point & Boiling Range:	100°C (212 °F)
9.8	Flash Point:	No information available.
9.9	Auto-ignition Temperature:	Not applicable.
9.10	Evaporation Rate:	No information available.
9.11	Flammability (solid, gas):	Not flammable.
9.12	Upper / Lower Flammability or Explosive Limits:	No information available.
9.13	Vapor Pressure:	No information available.
9.14	Vapor Density:	No information available.
9.15	Relative Density (Specific Gravity):	1.27 @ 15.5°C (60 °F)
9.16	Solubility in Water:	Mixes infinitely with water.
9.17	Partition Coefficient: (n-octanol / water):	No information available.
9.18	Decomposition Temperature:	No information available.
9.19	Molecular Weight:	Not applicable as product is a mixture.
9.20	Viscosity:	No information available.

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.

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):	1312 mg/kg.
	11.3.2 Dermal (LD ₅₀):	2918 mg/kg.
	11.3.3 Inhalation (LC ₅₀):	0.54 mg/l.
11.4	Acute Human Health Effects from Overexposure:	
	11.4.1 Eyes:	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.
	11.4.2 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.
	11.4.3 Dermal:	Skin contact may cause an irritation consisting of transient redness. This irritant effect would not be expected to result in permanent damage.
	11.4.4 Ingestion:	Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: Nausea, vomiting, lethargy or diarrhea.
11.5	Mutagen:	This product is not known or reported to be mutagenic.
11.6	Carcinogen:	
	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 Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)	This product contains a chemical(s) known to the State of California to cause cancer - Diethanolamine (CAS #: 111-42-2)
	11.6.5 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:	Toxic to fish and aquatic invertebrates.
12.3	Avian Toxicity:	No data.
12.4	Environmental Hazard:	Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required. Certain water conditions including low pH (≤ 6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non target aquatic organisms.

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 hazardous 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):	This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from US Toxic Substances Control Act (TSCA) Inventory listing requirements.
15.1.5	EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):	This product contains approx. 28% Copper Sulfate Pentahydrate (CAS #: 7758-99-8); RQ of Copper Sulfate Pentahydrate is 10 lbs.
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.
15.2.3	Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)	This product contains a chemical(s) known to the State of California to cause cancer - Diethanolamine (CAS #: 111-42-2)
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	0
	16.1.2	FLAMMABILITY	0
	16.1.3	PHYSICAL HAZARD	0
	Not established.		
16.2	NFPA 704 (National Fire Protection Association):		
	16.2.1	Health	
	16.2.2	Flammability	
	16.2.3	Instability	
	16.2.4	Special	
	Not established.		
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.

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