HASA-CIDE

Material Safety Data Sheet

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarter:

Hasa Inc.
23119 Drayton Street
Saugus, California 91350
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-CIDE
	1.1.2	**CAS #** (Chemical Abstracts Service)**:**	31512-74-0
	1.1.3	**RTECS** (Registry of Toxic Effects of Chemical Substances)**:**	TR1650000
	1.1.4	**EINECS** (European Inventory of Existing Commercial Substances)**:**	231-668-3
	1.1.5	**Chemical Name:**	Poly[oxyethylene (dimethylimino) ethylene-(dimethylimino) ethylene dichloride
	1.1.6	**Chemical Formula:**	
	1.1.7	**Synonym:**	WSCP
1.2	**Recommended Uses:**		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:**		661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: EMERGENCY OVERVIEW and HAZARD IDENTIFICATION			
2.1	**Emergency Overview.**		
2.2	**Routes of Entry:**		Eyes, skin absorption, inhalation, ingestion.
2.3	**Short Term Exposure:**		
	2.3.1	**Eyes:**	Slightly hazardous in case of eye contact (irritant).
	2.3.2	**Skin:**	Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
	2.3.3	**Inhalation:**	Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.
	2.3.4	**Ingestion:**	Ingestion is not expected to be a primary route of exposure.
	2.3.5	**Aggravated Medical Conditions:**	No information available.
2.4	**Long Term Exposure:**		The effects from chronic exposure to this product have not been fully evaluated.

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS		
Ingredient	**CAS No.**	**Weight %**
Poly [oxyethylene (dimethylimino)-ethylene (dimethylimino) ethylene dichloride	31512-74-0	40.0%

SECTION 4: FIRST AID MEASURES		
4.1	**IF IN EYES**	• 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**	• 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**	• 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**	• 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.

SECTION 5: FIRE FIGHTING MEASURES			
5.1	**Flash Point:**		Closed cup: >100°C (212°F). (Tagliabue)
5.2	**Flammability:**		Nonflammable and noncombustible.
5.3	**Auto-Ignition Temperature:**		Not applicable.
5.4	**Products of Combustion:**		Carbon monoxide may be formed upon burning.
5.5	**Fire Hazards:**		Nonflammable and noncombustible.
5.6	**Explosion Hazards:**		Not explosive.
5.7	**Fire Fighting Media and Instructions:**		
	5.7.1	**Extinguishing Media:**	Water fog, carbon dioxide, foam, dry chemical.
	5.7.2	**Special Fire Fighting Procedures:**	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES		
6.1	**Precautions:**	Important: Before responding to a spill or leak of this product, review each section of this MSDS. Check the Fire Fighting Measures (Section 5) to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.
6.2	**Spill and Leaks:**	Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g. water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. Determine if federal, state, and/or local release notification is required. Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills or leaks of this product to the industrial sewer.
6.3	**Contaminated Materials:**	Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.
6.4	**Container Disposal:**	Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

SECTION 7: HANDLING AND STORAGE		
7.1	**Handling:**	Avoid contact with skin and eyes. Do not ingest.
7.2	**Storage:**	Store in a cool, shaded outdoor area. Inside storage should be in a cool, dry, well-ventilated area. Keep in original container. Keep container closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	**Engineering Controls:**		Local exhaust ventilation.
8.2	**Personal Protection:**		
	8.2.1	**Eye:**	Wear chemical safety goggles plus full face shield to protect against splashing when appropriate.
	8.2.2	**Skin:**	Wear impervious gloves such as rubber, neoprene or vinyl.
	8.2.3	**Respiratory:**	NIOSH/MSHA approved respirator. Manufacturer's recommendations should be followed as a precautionary measure where airborne contaminants may occur.
	8.2.4	**Other Clothing And Equipment:**	Wear impervious protective clothing including rubber safety shoes. Eye wash facility and emergency shower should be in close proximity.
8.3	**Personal Protection in Case of a Large Spill:**		Wear splash goggles or safety glasses and gloves. If natural ventilation is insufficient, wear a NIOSH approved respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
9.1	**Physical State and Appearance:**	Liquid with pale yellow color.
9.2	**Odor:**	Mild.
9.3	**Odor Threshold:**	Not applicable.
9.4	**pH** (neat)**:**	7
9.5	**Boiling Point:**	≥ 100 ℃ (212℉)
9.6	**Melting Point:**	Not applicable.
9.7	**Freezing Point:**	-16℃ (3.2℉)
9.8	**Evaporation Rate** (BuAc=1)**:**	Not available.
9.9	**Vapor Pressure:**	Not available.
9.10	**Vapor Density:** (Air=1)	Not available.
9.11	**Relative Density or Specific Gravity** (H_2O=1)	1.15 @ 25℃ (77℉)
9.12	**Solubility in Water:**	Mixes with both hot and cold water in all concentrations.
9.13	**Partition Coefficient: n-octanol / water:**	Not applicable.
9.14	**Viscosity:**	Kinetic: 125 cS
9.15	**Volatility:**	Not applicable.
9.16	**Molecular Weight:**	275.26 g/mole
9.17	**Dispersion Properties:**	Not applicable.

SECTION 10: STABILITY AND REACTIVITY		
10.1	**Stability:**	Stable under normal conditions of storage, handling, and use.
10.2	**Hazardous Decomposition Products:**	Carbon monoxide may be formed upon burning.
10.3	**Conditions of Instability:**	No data available.
10.4	**Incompatible Substances:**	Anionic polymers.
10.5	**Corrosivity:**	Non corrosive to eyes and skin.
10.6	**Special Remarks on Reactivity:**	None.
10.7	**Hazardous Polymerization:**	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1	**Routes of Entry:**		Eyes, skin, ingestion, dermal absorption.
11.2	**Acute Toxicity:**		
	11.2.1	**Oral Toxicity** (LD_{50})**:**	1951 mg/kg (Male rat); 2587 mg/kg (Female rat)
	11.2.2	**Dermal Toxicity** (LD_{50})**:**	>2000 mg/kg (Rabbit)
	11.2.3	**Inhalation** (LC_{50})**:**	2.9 ppm (4 hours – Rat)
	11.2.4	**Primary Eye Irritation:**	Slightly hazardous in case of eye contact (irritant).
	11.2.5	**Primary Skin Irritation:**	Slightly hazardous in case of skin contact (irritant).
11.3	**Chronic Effects (Human Risk Assessment):**		No information available.
11.4	**Carcinogenic Potential:**		This product is currently classified as a 'Group D' (inadequate evidence) carcinogen. Negative results were observed in a mouse carcinogenicity study, but in a rat chronic toxicity/carcinogenicity study, increases in the incidence of thyroid C-cell adenomas were observed in female rats at doses of 300 and 900 mg/kg/day. The increase in thyroid C-cell adenoma was statistically significant at 300 mg/kg/day.

SECTION 12: ECOLOGICAL INFORMATION		
12.1	**Environmental Hazard:**	This product is toxic to fish and aquatic organisms. Do not contaminate water 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	**Ecotoxicity:**	Toxicity is primarily associated with pH. Toxic to aquatic life. Invertebrate and Microbial Toxicity: Acidification of soy broth containing Lester monocytogenes to pH 4.4 inhibited microbial activity. Invertebrate LC_{50} = 0.37 mg/l 48 hours Fathead minnow LC_{50} = 0.26 mg/l 96 hours Blue gill sunfish LC_{50} = 0.21 mg/l 96 hours Rainbow trout LC_{50} = 0.047 mg/l 96 hours Sheepshead minnow LC_{50}= >600 mg/l 96 hours Mysid shrimp LC_{50} = 13 mg/l 96 hours
12.3	**Persistence and Degradability:**	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose of in accordance with all applicable local, county, State, and Federal regulations.

13.1	**Contaminated Materials:** Determine if waste containing this product can be handled by available industrial effluent system or other onsite waste management unit. If offsite management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a RCRA hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under RCRA. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.
13.2	**Container Disposal:** Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, ensure proper management of any residuals remaining in container.

SECTION 14: TRANSPORT INFORMATION

14.1	**US DOT**	Not regulated.
14.2	**IMO** (International Maritime Organization) **Dangerous Goods:**	UN 3082 , Environmentally Hazardous Substance, liquid, N.O.S.(poly[oxyethylene(Dimethylimino)-ethylene-(Dimethylimino)ethylene dichloride]) , Class 9, P.G. III , Marine Pollutant (EmS No. F-A, S-F , ERG Guide 171, HazMat Code 4960131)
14.3	**IATA** (International Air Transport Association):	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 FIFRA** (Federal Insecticide, Fungicide and Rodenticide Act)	EPA Reg. No. :10897-13 (Registered pesticide under 40 CFR 152.10)
	15.1.4	**EPA TSCA** (Toxic Substance Control Act)	All components may not be listed on the TSCA Inventory. Registered pesticides are exempt from the requirements of TSCA.
	15.1.5	**EPA CERCLA** (Comprehensive Environmental Response, Compensation, and Liability Act)	No components of this product are present above the *de minims* levels.
	15.1.6	**EPA RMP** (Risk Management Plan)	Not listed. (40 CFR 68.130)
15.2	**State of California Regulations:**		
	15.2.1	**CDPR** (California Department of Pesticide Regulation)	Registration No: 10897-13-AA
	15.2.2	**CalARP** (California Accidental Release Prevention Program)	Not regulated.
15.3	**Canada Regulations:**		
	15.3.1	**WHMIS** (Workplace Hazardous Materials Information System)	• Classification: E (Corrosive Materials) • Health Effects Criteria Met by this Chemical: ▪ E - Corrosive to skin ▪ E - TDG class 8 - corrosive substance • Ingredient Disclosure List: Included for disclosure at 1% or greater.
	15.3.2	**DSL** (Domestic Substances List)	All components of this product are on the DSL.

SECTION 16: OTHER INFORMATION

16.1	**HMIS III** (Hazardous Materials Identification System):		
	16.1.1	**HEALTH**	**1**
	16.1.2	**FLAMMABILITY**	**1**
	16.1.3	**PHYSICAL HAZARD**	**0**
	16.1.4	**PERSONAL PROTECTION**	See Section 8.
16.2	**NFPA 704** (National Fire Protection Association):		
	16.2.1	**HEALTH**	**1**
	16.2.2	**FLAMMABILITY**	**1**
	16.2.3	**INSTABILITY**	**0**
	16.2.4	**SPECIAL**	**None**
16.3	**International Fire Code / International Building Code:**		No information available.
16.4	**ANSI** (American National Standards Institute):		
	16.4.1	**Hazardous Industrial Chemicals -** MSDS-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	**Classification:**	Acute Toxicity - Oral (Category 4).
	16.5.2	**Symbol:**	
	16.5.3	**Signal Word:**	Warning.
	16.5.4	**Hazard Statement:**	Harmful if swallowed.

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