



# HASA-CIDE

## Safety Data Sheet

**HASA-CIDE**  
Safety Data Sheet (SDS No. 303)

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarter: 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	<b>Product Identification:</b>	
1.1.1	<b>Product Name:</b>	HASA-CIDE
1.1.2	<b>CAS #</b> (Chemical Abstracts Service):	31512-74-0
1.1.3	<b>RTECS</b> (Registry of Toxic Effects of Chemical Substances):	TR1650000
1.1.4	<b>EINECS</b> (European Inventory of Existing Commercial Substances):	231-668-3
1.1.5	<b>Chemical Name:</b>	Poly [oxyethylene (dimethylimino) ethylene-(dimethylimino) ethylene dichloride]
1.1.6	<b>Chemical Formula:</b>	(C <sub>10</sub> H <sub>24</sub> Cl <sub>2</sub> N <sub>2</sub> O) <sub>n</sub>
1.1.7	<b>Synonym:</b>	WSCP
1.2	<b>Recommended Uses:</b>	Algaecide.
1.3	<b>Company Identification:</b>	Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355
1.4	<b>Emergency Telephone Number:</b>	<b>CHEMTREC</b> 1-800-424-9300 (24 hour)
1.5	<b>Non-Emergency Assistance:</b>	661-259-5848 (8 AM – 5 PM PST / PDT)

<b>SECTION 2: HAZARD(S) IDENTIFICATION</b>		
<b>HEALTH HAZARD</b>	Serious Eye damage / Eye Irritation	Category 2B
	Acute Toxicity (oral)	Category 4
	Acute Toxicity (inhalation)	Category 4
<b>SYMBOLS</b>		
<b>SIGNAL WORD</b>	<b>DANGER</b>	
<b>HAZARD STATEMENT</b>	Harmful if swallowed or if inhaled. Causes eye irritation.	
<b>PRECAUTIONARY STATEMENT</b>	<b>Prevention</b>	
	Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.	
	<b>Response</b>	
	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician 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.	
	<b>Disposal</b>	
Dispose of container/contents in accordance with local, regional, national, international regulations as specified.		

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

*While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.*

**SECTION 4: FIRST AID MEASURES**

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

**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	<b>Flash Point:</b>	Closed cup: >100°C (212°F). (Tagliabue)
5.2	<b>Products of Thermal Decomposition:</b>	Decomposition products may include the following materials: <ul style="list-style-type: none"> <li>• carbon dioxide</li> <li>• carbon monoxide</li> <li>• nitrogen oxides</li> <li>• halogenated compounds</li> </ul>
5.3	<b>Hazards arising from the chemical:</b>	In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
5.4	<b>Suitable extinguishing Media:</b>	Use an extinguishing agent suitable for the surrounding fire.
5.5	<b>Fire Fighting Instructions:</b>	
	5.7.1 <b>Protective Action for Fire Fighters:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	5.7.2 <b>Protective Equipment for Fire Fighters:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1	<b>Precautions:</b>	Important: Before responding to a spill or leak of this product, review each section of this SDS. 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	<b>Spill and Leaks:</b>	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	<b>Contaminated Materials:</b>	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 SDS for the neat product.

**SECTION 7: HANDLING AND STORAGE**

7.1	<b>Handling:</b>	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
7.2	<b>Storage:</b>	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1	<b>Engineering Controls:</b>	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
8.2	<b>Personal Protection:</b>	
	8.2.1 <b>Eye:</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
	8.2.2 <b>Skin:</b>	Wear impervious gloves such as rubber, neoprene or vinyl.
	8.2.3 <b>Respiratory:</b>	NIOSH/MSHA approved respirator. Manufacturer's recommendations should be followed as a precautionary measure where airborne contaminants may occur.
	8.2.4 <b>Other Clothing And Equipment:</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear impervious protective clothing including rubber safety shoes.
8.3	<b>Hygiene Measures:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Eye wash facility and emergency shower should be in close proximity.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1	<b>Physical State and Appearance:</b>	Liquid with pale yellow color.
9.2	<b>Odor:</b>	Mild.
9.3	<b>Odor Threshold:</b>	Not applicable.
9.4	<b>pH (neat):</b>	6 - 8
9.5	<b>Boiling Point:</b>	≥ 100 °C (212°F)
9.6	<b>Melting Point:</b>	Not applicable.
9.7	<b>Freezing Point:</b>	-16°C (3.2°F)
9.8	<b>Flash Point:</b>	Closed cup: >100°C (212°F) [Tagliabue.]
9.9	<b>Evaporation Rate (BuAc=1):</b>	Not available.
9.10	<b>Vapor Pressure:</b>	Not available.
9.11	<b>Vapor Density: (Air=1)</b>	Not available.
9.12	<b>Relative Density or Specific Gravity (H<sub>2</sub>O=1)</b>	1.13 @ 25°C (77°F)
9.13	<b>Solubility in Water:</b>	Mixes with both hot and cold water in all concentrations.
9.14	<b>Partition Coefficient: n-octanol / water:</b>	Not applicable.
9.15	<b>Viscosity:</b>	Dynamic: 125 cP (room temperature).
9.16	<b>Volatility:</b>	Not applicable.
9.17	<b>Dispersion Properties:</b>	Not applicable.

**SECTION 10: STABILITY AND REACTIVITY**

10.1	<b>Stability:</b>	Stable under normal conditions of storage, handling, and use.
10.2	<b>Hazardous Decomposition Products:</b>	See Section 5.2.
10.3	<b>Conditions of Instability:</b>	No data available.
10.4	<b>Special Remarks on Reactivity:</b>	None.
10.5	<b>Hazardous Polymerization:</b>	Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1	<b>Routes of Entry:</b>	Eyes, skin, ingestion, dermal absorption.
11.2	<b>Acute Toxicity:</b>	
	11.2.1 <b>Oral Toxicity (LD<sub>50</sub>):</b>	1850 mg/kg 1951 mg/kg (male rat)
	11.2.2 <b>Dermal Toxicity (LD<sub>50</sub>):</b>	>2000 mg/kg (Rabbit)
	11.2.3 <b>Inhalation (LC<sub>50</sub>):</b>	2.9 ppm (4 hours – Rat)
	11.2.4 <b>Primary Eye Irritation:</b>	Mild irritant. (rabbit)
	11.2.5 <b>Primary Skin Irritation:</b>	Mild irritant. (rabbit)
11.3	<b>Chronic Effects (Human Risk Assessment):</b>	No information available.
11.4	<b>Carcinogenic Potential:</b>	According to EPA: "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	<b>Environmental Hazard:</b>	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	<b>Ecotoxicity:</b>	<p>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.</p> <p>Invertebrate LC<sub>50</sub> = 0.37 mg/l 48 hours          Fathead minnow LC<sub>50</sub> = 0.26 mg/l 96 hours          Blue gill sunfish LC<sub>50</sub> = 0.21 mg/l 96 hours          Rainbow trout LC<sub>50</sub> = 0.047 mg/l 96 hours          Sheephead minnow LC<sub>50</sub> = &gt;600 mg/l 96 hours          Mysid shrimp LC<sub>50</sub> = 13 mg/l 96 hours</p>
12.3	<b>Persistence and Degradability:</b>	No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14: TRANSPORT INFORMATION**

14.1	<b>US DOT</b>	Not regulated.
14.2	<b>IMO</b> (International Maritime Organization) <b>Dangerous Goods:</b>	UN 3082, Environmentally Hazardous Substance, liquid, N.O.S.(poly [oxyethylene (Dimethylimino) ethylene-(Dimethylimino) ethylene dichloride]), Class 9, P.G. III ,  Marine Pollutant* Poly [oxyethylene(dimethyliminio) ethylene(dimethyliminio) ethylene dichloride])  Emergency Schedules: F-A, S-F. ERG Guide 171, HazMat Code 4960131  *The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
14.3	<b>IATA</b> (International Air Transport Association):	UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Poly [oxyethylene(dimethyliminio) ethylene(dimethyliminio) ethylene dichloride]) *The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**SECTION 15: REGULATORY INFORMATION**

15.1	<b>U.S. Regulations:</b>	
15.1.1	<b>OSHA HAZCOM</b> (Hazard Communication)	This material is considered hazardous under the HAZCOM Standard (29 CFR 1910.1200)
15.1.2	<b>OSHA PSM</b> (Process Safety Management)	Not regulated under PSM Standard (29 CFR 1910.119)
15.1.3	<b>EPA FIFRA</b> (Federal Insecticide, Fungicide and Rodenticide Act)	EPA Reg. No. :10897-13 (Registered pesticide under 40 CFR 152.10)
15.1.4	<b>EPA TSCA</b> (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	<b>EPA CERCLA</b> (Comprehensive Environmental Response, Compensation, and Liability Act)	Hazardous substances: 1,4-dioxane: 100 lbs. (45.4 kg); bis (2-chloroethyl) ether.
15.1.6	<b>EPA RMP</b> (Risk Management Plan)	Not listed. (40 CFR 68.130)
15.2	<b>State of California Regulations:</b>	
15.2.1	<b>CDPR</b> (California Department of Pesticide Regulation)	Registration No: 10897-13-AA
15.2.2	<b>CalARP</b> (California Accidental Release Prevention Program)	Not regulated.
15.2.3	<b>Prop 65</b> (Safe Drinking Water and Toxic Enforcement Act of 1986):	<b>WARNING:</b> This product contains less than 0.1% of a chemical [1,4-dioxane bis (2-chloroethyl) ether] known to the State of California to cause cancer.
15.3	<b>Canada Regulations:</b>	
15.3.1	<b>WHMIS</b> (Workplace Hazardous Materials Information System)	<ul style="list-style-type: none"> <li>• Classification: E (Corrosive Materials)</li> <li>• Health Effects Criteria Met by this Chemical: <ul style="list-style-type: none"> <li>▪ E - Corrosive to skin</li> <li>▪ E - TDG class 8 - corrosive substance</li> </ul> </li> <li>• Ingredient Disclosure List: Included for disclosure at 1% or greater.</li> </ul>
15.3.2	<b>DSL</b> (Domestic Substances List)	All components of this product are on the DSL.

<b>SECTION 16: OTHER INFORMATION</b>			
16.1	<b>HMIS III</b> (Hazardous Materials Identification System):		
	16.1.1	<b>HEALTH</b>	<b>1</b>
	16.1.2	<b>FLAMMABILITY</b>	<b>1</b>
	16.1.3	<b>PHYSICAL HAZARD</b>	<b>0</b>
	16.1.4	<b>PERSONAL PROTECTION</b>	See Section 8.
16.2	<b>NFPA 704</b> (National Fire Protection Association):		
	16.2.1	<b>HEALTH</b>	<b>1</b>
	16.2.2	<b>FLAMMABILITY</b>	<b>1</b>
	16.2.3	<b>INSTABILITY</b>	<b>0</b>
	16.2.4	<b>SPECIAL</b>	<b>None</b>
			
16.3	<b>International Fire Code / International Building Code:</b>		No information available.
16.4	<b>ANSI</b> (American National Standards Institute):		
	16.4.1	<b>Hazardous Industrial Chemicals - MSDS-Preparation:</b>	Complies with <b>ANSI Z400.1 – 2004.</b>
	16.4.2	<b>Hazardous Industrial Chemicals - Precautionary Labeling:</b>	Complies with <b>ANSI Z129.1 – 2006.</b>

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