HASA POOL CONDITIONER

Safety Data Sheet

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 POOL CONDITIONER
	1.1.2	**CAS #:**	108-80-5
	1.1.3	**RTECS** (Registry of Toxic Effects of Chemical Substances):	XZ1800000
	1.1.4	**EINECS** (European Inventory of Existing Commercial Substances):	203-618-0
	1.1.5	**Synonym:**	Isocyanuric acid, 2, 4, 6- trihydroxy-1, 3, 5-triazine, 1, 3, 5 triazine, 2, 4, 6-triol, trihydroxycyanidine, tricyanic acid, cyanuric acid.
	1.1.6	**Chemical Name:**	1,3,5-triazine-2,4,6-(1H, 3H, 5H) trione
	1.1.7	**Chemical Formula:**	$C_3H_3N_3O_3$
1.2	**Company Identification:**		Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355
1.3	**Emergency Assistance:**		**CHEMTREC**: 1-800-424-9300 (24 Hour Emergency Telephone)
1.4	**Non-Emergency Assistance:**		661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: HAZARD(S) IDENTIFICATION

Hazard Category	Skin corrosion / irritation: Eye irritation:	Category 2 Category 2B
Symbol		
Signal Word	**WARNING**	
Hazard Statements	Causes skin irritation. Causes eye irritation.	
Precautionary Statements	**Prevention**	
	Wash hands thoroughly after handling. Wear protective gloves.	
	Response	
	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.	

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Weight %
Cyanuric Acid	108-80-5	100%

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.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE FIGHTING MEASURES		
5.1	**Flammability:**	May be thermally decomposed at high temperatures.
5.2	**Auto-Ignition Temperature:**	Not applicable.
5.3	**Flash point:**	Not applicable.
5.4	**Flammable Limits:**	May be combustible at high temperatures.
5.5	**Products of Combustion:**	Oxides of carbon and nitrogen.
5.6	**Extinguishing Media:**	Use dry chemical powder for small fires. Do not use chemical powder containing ammonium compounds if fire also includes chlorine-containing chemicals. Use water spray, foam or fog for large fires.
5.7	**Fire Fighting Media and Instructions:**	Cool containers with water spray. In closed stores, use self-contained breathing apparatus in positive pressure mode.
5.8	**Fire/Explosion Hazards:**	When heated to decomposition, may release poisonous and corrosive fumes of CO_2, CO, NO_x and cyanic acid.
5.9	**Sensitivity to Impact:**	Not sensitive.
5.10	**Sensitivity to Static Discharge:**	Not sensitive.

SECTION 6: ACCIDENTAL RELEASE MEASURES
If possible use beneficially, i.e., place in pool water. Sweep up with appropriate tools (broom, dust pan, etc.) and place in container for disposal. Rinse exposed surface with water and discharge to sewer. Dispose of solid material in accordance with Federal, State or local authority. (Per guidelines under Section 13)

SECTION 7: HANDLING AND STORAGE		
7.1	**Handling:**	Avoid breathing dust. Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash off with water.
7.2	**Storage:**	Store in cool, dry and well ventilated place. Do not store at temperatures above 60℃/140℉. Product has an indefinite shelf-life limitation.
7.3	**Incompatible Materials:**	Keep away from oxidizers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	**Engineering Controls:**		A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.
8.2	**Airborne Exposure Limits:** Contains no substances with occupational exposure limit values (OSHA). All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1 Limits for Air Contaminants. (CFR 1910.1000). (http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=standards&p_id=9992)		
	8.2.1	**OSHA PNOR:**	15 mg/m^3 total dust, 5 mg/m^3 respirable fraction for nuisance dusts.
	8.2.2	**AIHA WEEL** (Workplace Environmental Exposure Limit Value)**:**	10 mg/m^3 total dust 5 mg/m^3 respirable dust
8.3	**Personal Protection:**		
	8.3.1	**Eye Protection:**	Use chemical safety goggles and/or a full face shield where dusting or splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
	8.3.2	**Respiratory Protection (NIOSH-Approved):**	Where risk assessment shows air-purifying respirators are appropriate use a full face particle respirator type N95 (US) or type P1 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
	8.3.3	**Skin Protection:**	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
9.1	**Appearance:**	White granular powder.
9.2	**Odor:**	Odorless.
9.3	**Odor Threshold:**	Odorless.
9.4	**pH:**	4.8 - 5.2 (10% solution)
9.5	**Melting Point:**	Sublimes at 330ºC (626ºF)
9.6	**Freezing point:**	Not applicable.
9.7	**Boiling Point & Boiling Range:**	320 - 360℃ (decomposes)
9.8	**Flash Point:**	Non-combustible (does not burn).
9.9	**Evaporation Rate:**	No applicable.
9.10	**Flammability (solid, gas):**	Not flammable.
9.11	**Upper / Lower Flammability or Explosive Limits:**	No information available.
9.12	**Vapor Pressure:**	No information available.
9.13	**Vapor Density:**	No information available.
9.14	**Relative Density (Specific Gravity):**	1.75 – 2.50 g/cc
9.15	**Solubility in Water:**	0.27 g/100ml (25℃).
9.16	**Partition Coefficient: (n-octanol / water):**	No information available.
9.17	**Auto-ignition Temperature:**	Not applicable.
9.18	**Decomposition Temperature:**	320 - 330℃ (608 - 626℉)
9.19	**Molecular Weight:**	129.07 g/mole
9.20	**Viscosity:**	No information available.

SECTION 10: STABILITY AND REACTIVITY

10.1	**Stability:**	Stable
10.2	**Polymerization:**	No information available.
10.3	**Incompatible Materials:**	Strong oxidizing agents, reducing agents, bases.
10.4	**Hazardous Decomposition Products:**	Oxides of carbon, cyanic acid and nitrogen oxides.
10.5	**Sensitivity to Mechanical Shock:**	Not sensitive.
10.6	**Sensitivity to Static Discharge:**	Not sensitive.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	**Routes of Entry:**		Nose and eyes. Unlikely ingested.
11.2	**Acute Toxicity:**		
	11.2.1	**Oral Toxicity** (LD_{50}):	>5000 mg/kg (rat)
	11.2.2	**Dermal Toxicity** (LD_{50}):	≥2000 mg/kg (rat)
	11.2.3	**Inhalation** (LC_{50}):	No information available.
	11.2.4	**Eye Irritation:**	Mild irritant (rabbit)
	11.2.5	**Dermal Irritation:**	Mild irritant (rabbit)
11.3	**Target Organ Toxicity:** May cause mild skin and eye irritation. Based on data from toxicological investigations, Cyanuric acid does not result in direct target damage. Damage to the kidneys and bladder has been observed in rats when these animals are provided a saturated solution (5375 ppm) of cyanuric acid for their drinking water. During excretion of high amounts by the kidneys, stones of cyanuric acid can form (calculi) resulting in mechanical damage, which is secondary to stone formation. There should be no risk to humans during manufacture of the product, its use as a swimming-pool product, or even by consumption of dilute solutions (1-10 ppm) of cyanuric acid. Cyanuric acid is excreted unchanged rapidly via the kidneys. It lacks the potential to bioaccumulate in the body.		
11.4	**Chronic toxicity:** There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.		
11.5	**Reproductive and Development Toxicity:** There is no known reported effects on reproductive function or fetal development. Monosodium cyanurate (the sodium salt of cyanuric acid) has been tested by oral gavage in pregnant rats and rabbits. No teratogenic effects were seen in the offspring of either species.		
11.6	**Carcinogenic [Cancer Potential] Information:**		
	11.6.1	**NTP** (National Toxicological Program 8th 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	**ACGIH** (American Conference of Governmental Industrial Hygienists):	Not Listed.
	11.6.4	**OSHA** (Occupational Safety & Health Administration):	Not Listed.
11.7	**Mutagenicity:** Not known or reported to be mutagenic. Cyanuric acid was demonstrated to be non-mutagenic in the Ames assay, both with or without metabolic activation.		

SECTION 12: ECOLOGICAL INFORMATION			
12.1	**Ecotoxicological Information:**		Toxicity of this chemical to aquatic organisms seems to be low because all toxicity data are higher than 32 mg/L. OECD SIDS (Organization for Economic Cooperation & Development's Screening Information Data Set)
12.2	**Aquatic Toxicity:**		
	12.2.1	Fish: (96 hour LC_{50}):	>2,100 mg/l (Rainbow Trout) >2,100 mg/l (bluegill sunfish) >2,100 mg/l (Fathead minnow)
	12.2.2	Water Flea: (48 hour LC_{50}):	1,000 mg/l (Daphnia Magna)
12.3	**Avian Toxicity** (dietary LC_{50}):		>10,000 ppm (Mallard duck) >10,000 ppm (Bobwhite quail)
12.4	**Chemical Fate Information:**		Biodegradation 0% in 28 days (OECD 301C). Bioaccumulation BCF = < 0.5 (OECD 305C).
12.5	**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.

SECTION 13: DISPOSAL CONSIDERATIONS		
13.1	**Waste Disposal Summary:**	If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR261 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.
13.2	**Disposal Methods:**	As a non hazardous solid waste it should be disposed of in accordance with local, state and federal regulations.
13.3	**Special Remarks:**	Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibilities to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non hazardous wastes.

SECTION 14: TRANSPORT INFORMATION		
14.1	**U.S. DOT:**	Not regulated as a hazardous material.
14.2	**Canadian TDG** (Transportation of Dangerous Goods):	Not regulated as a dangerous material.
14.3	**IATA** (International Air Transport Association):	Not regulated as a dangerous material.
14.4	**IMO** (International Maritime Organization) **Dangerous Goods:**	Not regulated as a dangerous material.

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)	Not regulated.
	15.1.4	**EPA TSCA** (Toxic Substance Control Act)	All components are listed. TSCA 12(b): This product is not subject to export notification.
	15.1.5	**EPA CERCLA** (Comprehensive Environmental Response, Compensation, and Liability Act)	RQ - none.
	15.1.6	**EPA SARA** (Superfund Amendments and Reauthorization Act) **Title III**	**Section 311/312** Immediate (Acute) Health Hazard
	15.1.7	**EPA RMP** (Risk Management Plan)	Not regulated. (40 CFR 68.130)
15.2	**State of California Regulations:**		
	15.2.1	**Prop 65** (Safe Drinking Water and Toxic Enforcement Act of 1986)	Not listed.
	15.2.2	**CDPR** (California Department of Pesticide Regulation)	Registration No: 10897-50006-AA
	15.2.3	**CalARP** (California Accidental Release Prevention Program)	Not regulated.
15.3	**Canada Regulations:**		
	15.3.1	**WHMIS** (Workplace Hazardous Materials Information System)	**Classification:** Insufficient information **Health Effects Criteria Met by this Chemical:** Does not meet criteria. **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.
15.4	**DSCL (EEC):**		
	15.4.1	**Risk Phrase:**	Not classified in accordance with EU regulations.
	15.4.2	**Safety Phrases:**	Not classified in accordance with EU regulations S24/25.
15.5	**International Inventory:**		
	15.5.1	**AICS** (Australian Inventory of Chemical Substances)	On inventory or in compliance with inventory.
	15.5.2	**KECI** (Korean Existing Chemicals Inventory)	On inventory or in compliance with inventory.
	15.5.3	**PICCS** (Philippine Inventory of Chemicals and Chemical Substances)	On inventory or in compliance with inventory.
	15.5.4	**IECSC** (Inventory of Existing Chemical Substances in China)	On inventory or in compliance with inventory.
	15.5.5	**NZIoC** (New Zealand Inventory of Chemicals)	On inventory or in compliance with inventory.

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**
	16.1.4	**PERSONAL PROTECTION:**	**Section 8**
16.2	**NFPA 704** (National Fire Protection Association):		
	16.2.1	**HEALTH**	**1**
	16.2.2	**FLAMMABILITY**	**0**
	16.2.3	**REACTIVITY**	**0**
	16.2.4	**SPECIAL**	**None**
16.3	**ANSI** (American National Standards Institute):		
	16.3.1	**Hazardous Industrial Chemicals -** MSDS-Preparation:	Complies with **ANSI Z400.1 – 2004**.
	16.3.2	**Hazardous Industrial Chemicals -** Precautionary Labeling:	Complies with **ANSI Z129.1 – 2006**.
16.4	**International Fire Code / International Building Code [1997 edition]:**		No information.

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