

Material Safety Data Sheet

Product: Hartland Cyclone

Phone: 800-658-9051

Date of Preparation: 02-21-06

Section 1 – Chemical Product and Company Identification

Synonyms: Not applicable - mixture
Form: Liquid
CAS No: Not applicable - mixture
Supplier: Hartland Lubricants & Chemicals, 914 Commercial Court Onalaska, WI 54650

Section 2 – Composition / Information on Ingredients

Ingredient	CAS No	%	Exposure limits
Detergents	proprietary	5-10	None established
Sodium metasilicate	6834-92-0	1-5	TLV:2mg/m ³ dust PEL:2mg/m ³ dust
Sodium hydroxide	1310-73-2	1-2	TLV:2mg/m ³ dust PEL:2mg/m ³ dust
Tetrasodium EDTA	64-02-8	1-5	None established
Balance of ingredients are not hazardous as defined by OSHA			

Section 3 – Hazard Identification

Emergency Overview

24 Hour Professional Emergency Resource Services (PERS) 800-633-8253

Primary routes of entry: skin contact or eye contact.

Acute exposure: Can cause eye burns and severe skin irritation

HMIS Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Health = 2 Reactivity = 0 Fire = 0 Personal protection: B (gloves and glasses)

Possible Health Effects

Inhalation: If mist is inhaled, can cause respiratory irritation, burning sensation, coughing, sore throat, and labored breathing.

Ingestion: Cause burns to the mouth, throat, esophagus, stomach, and gastrointestinal tract.

Skin Contact: Can cause severe irritation or burns depending upon duration of contact.

Eye Contact: Will cause severe irritation and burns. Damage is dependent upon length of exposure and treatment.

Chronic Exposure: Severe irritation or burns

Aggravation of Pre-existing Conditions: Pre-existing skin diseases

Section 4 – First Aid Measures

Inhalation: Remove to fresh air. Get immediate attention for any breathing difficulty. Administer CPR if needed.

Ingestion: Give several glasses of water to drink to dilute product. Do not induce vomiting unless directed by a physician. Obtain immediate medical aid or call poison control. During vomiting there is a danger of aspirating liquid into lungs, causing damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Gastric lavage should be performed only by qualified medical personnel.

Skin Contact: Immediately flush skin with cool water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops. Launder clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with cool water for at least 15 minutes while lifting upper and lower eyelids occasionally. Remove contact lenses. Continue flushing and get immediate medical attention.

Section 5 – Fire Fighting Measures

Fire:	Greater than 200°F (open cup)
Unusual fire / Explosion Hazards	Contact with soft metals can form flammable hydrogen gas. High temperatures may create heavy vapors that can settle at ground level or low spots that can be a fire hazard.
Fire Extinguishing Media:	Use any means suitable for extinguishing surrounding fire. Foam, carbon dioxide, dry chemical, water for, or water may be suitable. Water spray can be used to keep exposed containers cool.
Special Information:	In the event of a fire, wear full protective gear and NIOSH-approved self-contained breathing apparatus that is appropriate for the primary cause of fire. Containers can melt from the heat of a fire. Prolonged contact with soft metals may produce hydrogen gas which is flammable.

Section 6 – Accidental Release Measures

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate protective equipment as specified in Section 8.	
Spills:	Small spills: Mop thoroughly and rinse with water. Large Spills: Evacuate area. Eliminate ignition sources. Block potential routes to water systems (sewers, streams, etc.) with inert material such as sand or dirt. Containerize for reclamation or disposal. Wash down affected areas with clear water. CERCLA regulations may require reporting spills and releases to soil, water, and air. Call local Emergency Response agency to report spill. Waste Disposal: Contact the proper county, state or federal authorities.

Section 7 – Handling and Storage

Keep out of reach of children. Keep container closed when not in use. Empty containers may contain product residues – observe all warnings and precautions. Keep from freezing. Store away from sources of heat and incompatibilities. Best to store between 40°F and 100°F.

Section 8 – Exposure controls / Personal Protection

Airborne Exposure Limits:	See section 2
Ventilation System:	Local and/or general exhaust is recommended to keep exposure (mists) below limits.
Personal Respirators:	Not needed under normal use conditions. Where mist is generated and ventilation is not adequate, wear a NIOSH respirator for vapors and mists.
Skin Protection:	Compatible chemical-resistant gloves and clean body-covering clothing. Maintain quick-drench facility in the work area.
Eye Protection:	Use chemical safety glasses or goggles. Maintain eye wash fountain in the work area.

Section 9 – Physical and Chemical Properties

Appearance: Clear blue liquid	Boiling Point: Approximately 212°F
Odor: Slight	Melting Point: Not applicable
Solubility: Complete	Vapor Density (Air = 1) 3.1
Specific Gravity: 1.05 – 1.06	Vapor Pressure (mm Hg) 0.6 mmHg @ 20°C
pH: 12.5 – 13.0	Evaporation Rate (BuAc=1) <1
	% VOC 0.00%

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Section 10 – Stability and Reactivity

Stability: Stable at room temperature.

Hazardous Decomposition Products: Carbon dioxide or carbon monoxide. Nitrogen oxide, sulfur oxide, irritating vapors, smoke

Hazardous Polymerizations: Will not occur.

Incompatibilities: Strong oxidizers and acids. Soft metal contact can produce hydrogen.

Conditions to Avoid: Heat and incompatibles.

Section 11 – Toxicological Information

Ingredient	-----NTP Carcinogen-----		IARC Category
	Known	Anticipated	
Detergents	No	No	None
Sodium metasilicate	No	No	None
Sodium hydroxide	No	No	None
Tetrasodium EDTA	No	No	None

Section 12 – Ecological Information

Ecological Fate: Product is readily biodegradable
Sodium metasilicate, sodium hydroxide, tetrasodium EDTA: no data
Detergents: Readily biodegradable

Ecological Toxicity: Sodium metasilicate, sodium hydroxide: No data available
Tetrasodium EDTA: 96 hr LC50 bluegill sunfish: 490 mg/L (static)
Detergents: 72 hr EC50 algae: 0.5 mg/L

Section 13 – Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14 – Transport Information

Domestic (Land, D.O.T.)

Proper shipping Name: Corrosive liquids, n.o.s. (sodium hydroxide, disodium trioxosilicate), 8, UN3266, PGIII

Hazard Class: 8

Section 15 – Regulatory Information

• Chemical Inventory Status - part 1 •

Ingredient	TSCA	EC	Japan	Australia
Detergents	Yes	Yes	Yes	Yes
Sodium metasilicate	Yes	Yes	Yes	Yes
Sodium hydroxide	Yes	Yes	Yes	Yes
Tetrasodium EDTA	Yes	Yes	Yes	Yes

• *Chemical Inventory Status – part 2* •

Ingredient	-----Canada-----			
	Korea	DSL	NDSL	Philippines
Detergents	Yes	Yes	No	Yes
Sodium metasilicate	Yes	Yes	No	Yes
Sodium hydroxide	Yes	Yes	No	Yes
Tetrasodium EDTA	Yes	Yes	No	Yes

• *Federal, State & International Regulations – part 1* •

Ingredient	--- SARA 302 ---		----- SARA 313 -----	
	RQ	TPQ	List	Chemical Catg.
Detergents	No	No	No	No
Sodium metasilicate	No	No	No	No
Sodium hydroxide	No	No	No	No
Tetrasodium EDTA	No	No	No	No

• *Federal, State & International Regulations – part 2* •

Ingredient	CERCLA	RCRA 261.33	TSCA 8(d)
	Detergents	No	No
Sodium metasilicate	No	No	No
Sodium hydroxide	1000	No	No
Tetrasodium EDTA	No	No	No

Chemical Weapons Convention: No

TSCA 12(b): No

CDTA: No

SARA 311/312:

Acute: Yes

Chronic: yes

Fire: No

Pressure: No

Reactivity: No

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains information required by the CPR.

Section 16 – Other Information

Revision Notes:

Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information.

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