

Material Safety Data Sheet

Product: Hartland Tough Stuff

Phone: 800-658-9051

Date of Preparation: 04-14-06

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
Proprietary organic salt – low pH			None established
Water			

Section 3 – Hazard Identification

Emergency Overview

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

Primary routes of entry: inhalation, skin contact or eye contact.

Acute exposure: Skin irritant. Severe eye irritant. Harmful if swallowed.

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

Health = 2 Reactivity = 0 Fire = 0 Personal protection: B (gloves, safety goggles or glasses)

Possible Health Effects

Inhalation: Inhalation of mist can cause coughing, choking, irritation of the nose, throat, and upper respiratory tract.

Ingestion: Swallowing can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, and diarrhea, and in severe cases, death.

Skin Contact: Can cause redness, pain, and severe skin irritation. Irritation effects can last for hours or days but are not expected to result in permanent damage.

Eye Contact: Liquid and mist are irritating and may cause damage to the eyes.

Chronic Exposure: Long term exposures seldom occur due to the irritating properties of the product.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders or eye disease may be more susceptible to the effects of this substance.

Section 4 – First Aid Measures

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

Ingestion: Do not induce vomiting. Give several glasses of water to drink to dilute product. Obtain immediate medical aid or call poison control. During spontaneous 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 immediately 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:	Not flammable
Unusual fire / Explosion Hazards	Contact with soft metals can form flammable hydrogen gas.
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. Isolate hazard area.

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. Carefully and slowly neutralize with alkaline material (soda ash or lime) – heat is created and can splatter and bubble. Containerize for reclamation or disposal. Wash down affected areas with clear water. CERCLA regulations 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.
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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. Store away from sunlight, sources of heat and incompatibilities. Best to store between 20°F and 90°F. At higher temperatures containers can swell – may need to be vented. Never add water to product – can cause uncontrolled boiling and splashing. Store in a cool, dry, ventilated storage area with acid resistant floors and good drainage.

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) at a minimum.
Personal Respirators:	Respiratory protection may be required to avoid overexposure if ventilation is not sufficient to eliminate symptoms. NIOSH approved respirator with organic vapor cartridge.
Skin Protection:	Compatible chemical-resistant gloves and clean body-covering clothing. Maintain quick-drench facility in the work area. Rubber apron and boots.
Eye Protection:	Use chemical safety goggle or glasses. Maintain eye wash fountain in the work area.

Section 9 – Physical and Chemical Properties

Appearance: Clear amber liquid	Boiling Point: Approximately 212°F
Odor: Slight	Melting Point: Approximately 0°F
Solubility: Complete	Vapor Density (Air = 1) No information
Specific Gravity: 1.133 – 1.40	Vapor Pressure (mm Hg) No information
pH: 0.3 – 1.0	Evaporation Rate (BuAc=1) Slower than 1
	% VOC 0.00%

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Section 10 – Stability and Reactivity

Stability: Stable at room temperature. Containers build up pressure when heated.

Hazardous Decomposition Products: Chlorine containing gasses. Nitrogen containing gasses.

Hazardous Polymerizations: Will not occur.

Incompatibilities: Reactive with strong bases, metals, metal oxides, hydroxides, amines, carbonated and other alkaline materials. Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde.

Conditions to Avoid: Heat, incompatibles, sunlight

Section 11 – Toxicological Information

Ingredient	-----NTP Carcinogen-----		IARC Category
	Known	Anticipated	
Proprietary organic salt – low pH	No	No	No

Section 12 – Ecological Information

Ecological Fate: When released into the soil, this material is expected to biodegrade. When released into the soil, this material may leach into groundwater.

Ecological Toxicity: This material is expected to be toxic to aquatic life.

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: Cleaning Compound
Hazard Class: Not applicable

Section 15 – Regulatory Information

• *Chemical Inventory Status - part 1* •

Ingredient	TSCA	EC	Japan	Australia
Proprietary organic salt – low pH	Yes	Yes	Yes	

• *Chemical Inventory Status – part 2* •

Ingredient	-----Canada-----			Philippines
	Korea	DSL	NDSL	
Proprietary organic salt – low pH	Yes	Yes	No	

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

Ingredient	--- SARA 302 ---		----- SARA 313 -----	
	RQ	TPQ	List	Chemical Catg.

Proprietary organic salt – low pH No No No No

• Federal, State & International Regulations – part 2 •

Ingredient	CERCLA	RCRA 261.33	TSCA 8(d)
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Proprietary organic salt – low pH	No	No	No
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Chemical Weapons Convention:	No	TSCA 12(b):	No	CDTA:	Yes
SARA 311/312:	Acute: Yes	Chronic: yes	Fire:	No	Pressure: No
	Reactivity:	No			
Australian Hazchem Code:					
	Poison Schedule:	None allocated			

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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