

# Material Safety Data Sheet

**Product: Hartland Pre-Soak Debugger**

**Phone: 800-658-9051**

Date of Preparation: 02-16-06

## 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	3-8	None established
Glycol ether EB	111-76-2	1-3	TLV:50 ppm Skin PEL: 25 ppm skin
Balance of ingredients are not hazardous as defined by OSHA			

## Section 3 – Hazard Identification

### Emergency Overview

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

Primary routes of entry: skin contact or eye contact.

Acute exposure: eye irritant

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

Health = 2 Reactivity = 0 Fire = 1 Personal protection: gloves and glasses

### Possible Health Effects

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

**Ingestion:** If swallowed, large doses can cause severe irritation or burns to the gastrointestinal tract.

**Skin Contact:** Can cause irritation. May cause severe irritation with redness, dryness upon prolonged contact.

**Eye Contact:** Can cause severe irritation or burns depending upon length of exposure and treatment.

**Chronic Exposure:** Severe irritation

**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. Get immediate medical attention.

## Section 5 – Fire Fighting Measures

**Fire:** Greater than 200°F (open cup)

<b>Unusual fire / Explosion Hazards</b>	Contact with soft metals may 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.
<b>Fire Extinguishing Media:</b>	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.
<b>Special Information:</b>	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.	
<b>Spills:</b>	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.

### Section 8 – Exposure controls / Personal Protection

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

### Section 9 – Physical and Chemical Properties

<b>Appearance:</b> Clear yellow-green liquid	<b>Boiling Point:</b> Approximately 212°F
<b>Odor:</b> Slight	<b>Melting Point:</b> Not applicable
<b>Solubility:</b> Complete	<b>Vapor Density (Air = 1)</b> Greater than 1
<b>Specific Gravity:</b> 1.012 – 1.017	<b>Vapor Pressure (mm Hg)</b> 0.88 mm Hg @25C
<b>pH:</b> 11.4 – 11.9	<b>Evaporation Rate (BuAc=1)</b> Slower than 1
	<b>%VOC's</b> <3

### Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable at room temperature.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide or carbon monoxide

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**Hazardous Polymerizations:** Will not occur.  
**Incompatibilities:** Strong oxidizers and acids  
**Conditions to Avoid:** Heat and incompatibles.

**Section 11 – Toxicological Information**

Ingredient	-----NTP Carcinogen-----		IARC Category
	Known	Anticipated	
Detergents	No	No	None
Glycol ether EB	No	No	None

**Section 12 – Ecological Information**

**Ecological Fate:** Product is biodegradable  
 Glycol ether EB: Not expected to evaporate significantly when released into soil or water. May biodegrade to a moderate extent when released to soil. May leach into groundwater. Not expected to bioaccumulate. When released into the air, this material is expected to have a half-life of less than 1 day.

**Ecological Toxicity:** Glycol ether EB: The LC50/96-hour values for fish are over 100mg/l. This material is not 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 regulated

**Section 15 – Regulatory Information**

**• Chemical Inventory Status - part 1 •**

Ingredient	TSCA	EC	Japan	Australia
Detergents	Yes	Yes	Yes	Yes
Glycol ether EB	Yes	Yes	Yes	Yes

**• Chemical Inventory Status – part 2 •**

Ingredient	Korea	-----Canada-----		Philippines
		DSL	NDSL	
Detergents	Yes	Yes	No	Yes
Glycol ether EB	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
Glycol ether EB	No	No	Yes	Glycol ethers

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

Ingredient	CERCLA	RCRA 261.33	TSCA 8(d)
Detergents			
Glycol ether EB			

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Detergents	No	No	No
Glycol ether EB	No	No	Yes
<b>Chemical Weapons Convention:</b>	No	<b>TSCA 12(b):</b>	No <b>CDTA:</b> No
<b>SARA 311/312:</b>	<b>Acute:</b> Yes	<b>Chronic:</b> Yes	<b>Fire:</b> Yes <b>Pressure:</b> No
	<b>Reactivity:</b>	No	
	<b>Australian Hazchem Code:</b>	No information found.	
	<b>Poison Schedule:</b>	No information found.	
<b>WHMIS:</b> 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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