# Material Safety Data Sheet

Phone: 800-658-9051

### **Product: Hartland Citrus Cleaner**

Date of Preparation: 04-21-06

## Section 1 – Chemical Product and Company Identification

**Synonyms:** Not applicable – mixture

Form: Liquid

**CAS No:** Not applicable - mixture

Distributor: Hartland Lubricants & Chemicals | 914 Commercial Court | Onalaska WI 54650

## Section 2 – Composition / Information on Ingredients

Ingredient	CAS No	%	Exposure limits
Glycol ether EB	111-76-2	1-5	PEL: 50 ppm skin TLV: 20ppm (TWA)
Dimethyl Glutarate	1119-40-0	1-5	TWA: $10 \text{mg/m}^3$
Dimethyl Succinate	106-65-0	1-5	TWA: $10 \text{mg/m}^3$
Dimethyl Adipate	627-93-0	1-5	TWA: $10 \text{mg/m}^3$
Nonoxynol-9	26027-38-3	1-5	None established
Proprietary detergents	Proprietary	5-10	None established
Monoethanolamine	141-43-5	1-5	TWA: 3ppm
D-limonene	59-89-275	1-2	NDA
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: irritant

HMIS Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe Health = 1 Reactivity = 0 Fire = 1 Personal protection: B gloves and glasses

Possible Health Effects	Harmful if swallowed,	inhaled or absorbed through skin.	Eye, skin, an	d respiratory irritant. Affects
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central nervous system. See section 11.

Inhalation: Overexposure by inhalation of product may lead to irritation of respiratory tract, producing

shortness of breath. May be absorbed into the bloodstream with symptoms similar to ingestion. Caution should be taken to prevent atomizing or misting of this product without proper respiratory

protection.

Ingestion: Ingestion is not expected to be a primary route of exposure. Do not ingest. Material will cause

severe irritation in mouth, throat and stomach. Note: Aspiration is a secondary hazard and should

be expected. Product will attack lining of esophagus and stomach.

Skin Contact: This product contains materials that can cause skin irritation. Prolonged or repeated contact may

result in severe irritation. Prolonged exposure to diluted product can cause irritation. May be

absorbed through the skin with symptoms paralleling ingestion.

Eye Contact: Direct contact will cause severe irritation if not properly treated. Effects may range from mild to

severe damage depending upon length of exposure, solution concentration and first aid measures

Chronic Exposure: Chronic exposure may cause skin effects.

Aggravation of Pre-existing Conditions: No information found

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### **Section 4 – First Aid Measures**

**Inhalation:** If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual

experiences nausea, headache, dizziness, has difficulty breathing or is cyanotic, seek a health care

professional immediately. Administer CPR if necessary.

**Ingestion:** Drink 1-2 large glasses of milk or water. Obtain immediate medical aid or call poison control. Do not

induce vomiting unless directed by a physician. During vomiting there is a danger of aspirating liquid into lungs, causing serious 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. Keep affected person warm and at rest. Seek immediate medical

attention or call 911.

**Skin Contact:** Remove contaminated clothing. Immediately wash exposed area with copious amounts of water. Repeat

washing. If redness or irritation occurs, seek immediate medical attention. Launder contaminated clothing

before reuse.

Eye Contact: Check for and remove contact lenses. Flush immediately with copious amounts of water for 15 minutes

while holding eyelids apart to ensure complete irrigation of eye and eyelid tissues. If irritation develops, take exposed individual immediately to a health care professional, preferably an ophthalmologist, for

emergency first aid and further evaluation

## **Section 5 – Fire Fighting Measures**

Fire: Flash point >141°F CC

High heat or direct flame is necessary to cause ignition.

Unusual Fire and Explosion Hazards:

High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard. Above the flash point, explosive vapor-air mixtures may

be formed. The heat of a fire may cause containers to build interior pressure and burst.

Fire Extinguishing

Media:

Foam, carbon dioxide, dry chemical. Do not use a solid stream of water, since the stream will scatter and spread the fire. Water spray may be used to keep fire exposed containers cool.

Special

**Information:** 

Evacuate area and fight fire from a safe distance. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible. Stay away from storage tank ends. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus with full face

mask and full protective equipment.

### 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:** Procedures for Cleanup: Wear protective gear. Small spills: Mop thoroughly and rinse with water.

Procedures for Cleanup: Wear protective gear. Small spills: Mop thoroughly and rinse with water.

Large Spills: Evacuate area. Wear protective equipment. Eliminate ignition sources. Ventilate area of leak. Block

potential routes to water systems (sewers, streams, etc.) with inert material such as sand or dirt. Salvage for reuse if possible. Place into disposal containers. Wash down affected areas with clear water. RCRA regulated. Call local Emergency Response agency to report spill.

Waste Disposal: Contact the proper county, state or federal authorities. RCRA regulated.

# **Section 7 – Handling and Storage**

Product should be stored between 40 and  $100^{0}$ F. Store out of direct sunlight. Keep out of reach of children. Keep container closed when not in use. Mix only with water. Thoroughly rinse empty containers before disposal. Use only in well ventilated area. Do not breathe vapors. Wash hands thoroughly after handling. Keep away from ignition sources. No smoking. Containers of this material may be hazardous when empty since they can retain product residues – observe all warnings and precautions.

## **Section 8 – Exposure controls / Personal Protection**

**Airborne Exposure Limits:** See section 2

Product: Hartland Citrus Cleaner

**Ventilation System:** Use adequate ventilation when working with material in an enclosed area. Mechanical methods

> such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure.

Not needed under normal use conditions. Where mist is generated and ventilation is not **Personal Respirators:** 

adequate, wear a NIOSH particulate respirator for mists.

Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption. **Skin Protection:** 

Clean body-covering clothing. Maintain quick-drench facility in the work area.

**Eye Protection:** Eve protection must be worn. Wear safety glasses with side shields or vented splash proof

goggles

Eyewash stations and showers should be available in areas where this material is used and **Other Equipment:** 

stored. Rubber apron and boots.

## Section 9 – Physical and Chemical Properties

**Boiling Point:** Appearance:

Blue liquid, slight haze Greater than 212°F

**Melting Point:** Odor: Orange Not applicable

**Solubility:** Vapor Density (Air = 1)Complete

**Specific Gravity:** Vapor Pressure (mm Hg) 1.017 - 1.0220.5 @ 25C (77F)

**Evaporation Rate (BuAc=1)** 

9.5 - 10.5Slower than 1

# Section 10 - Stability and Reactivity

**Stability:** Stable at room temperature.

**Hazardous Decomposition** Carbon dioxide or carbon monoxide, smoke

**Products:** 

Hazardous Will not occur.

**Polymerizations:** 

**Incompatibilities:** Avoid contact with acids and oxidizing materials. May attack some plastics.

**Conditions to Avoid:** Heat, flames, ignition sources, and incompatibles.

## Section 11 – Toxicological Information

	NTP (		
Ingredient	Known	Anticipated	IARC Category
Glycol ether EB	No	No	A3
Dimethyl Glutarate	No	No	None
Dimethyl Succinate	No	No	None
Dimethyl Adipate	No	No	None
Nonoxynol-9	No	No	None
Proprietary detergents	No	No	None
Monoethanolamine	No	No	None
D-limonene	No	No	None

Glycol ether EB – inhalation exposure to pregnant rabbits caused some toxicity to mother and fetus at 200 ppm, but no effects at 100 ppm. Rat studies indicate the rat kidneys may be the target organs for over exposure, but rat liver changes may also be evident. There is no evidence that this occurs in humans.

**Product: Hartland Citrus Cleaner** 

## **Section 12 – Ecological Information**

**Ecological Fate:** Glycol ether EB: Estimated bioconcentration factor is less than 100. When released into the air, it has

a half-life of less than 1 day. Detergents: Readily biodegradable

**Ecological Toxicity:** Glycol ether EB: LC50/96-hour values for fish are over 100 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: Not regulated. Cleaning compound (class 55)

In less than bulk packaging

Bulk Packaging: Regulated. Combustible liquid

## **Section 15 – Regulatory Information**

<ul> <li>◆ Chemical Inventory Status - part 1 ◆</li> <li>Ingredient</li> </ul>	TSCA	EC	Japan	Australia
Glycol Ether EB	Yes	Yes	Yes	Yes
Dimethyl Glutarate	Yes	Yes	Yes	Yes
Dimethyl Succinate	Yes	Yes	Yes	Yes
Dimethyl Adipate	Yes	Yes	Yes	Yes
Nonoxynol-9	Yes	No	Yes	Yes
Proprietary detergents	Yes	ND	ND	ND
Monoethanolamine	Yes	Yes	Yes	Yes
D-limonene	Yes	Yes	Yes	Yes

• Chemical Inventory Status − part 2 •				
Ingredient	Korea	DSL	NDSL	Philippines
N-methyl pyrrolidone	Yes	Yes	No	Yes
Dimethyl Glutarate	Yes	Yes	No	Yes
Dimethyl Succinate	Yes	Yes	No	Yes
Dimethyl Adipate	Yes	Yes	No	Yes
Nonoxynol-9	Yes	Yes	No	Yes
Proprietary detergents	ND	ND	ND	ND
Monoethanolamine	ND	Yes	No	Yes
D-limonene	Yes	Yes	ND	ND

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

	SARA 302		SARA 313	
Ingredient	RQ	TPQ	List	Chemical Catg.
Glycol ether EB	No	No	Yes	Glycol ethers
Dimethyl Glutarate	No	No	No	No
Dimethyl Succinate	No	No	No	No
Dimethyl Adipate	No	No	No	No
Nonoxynol-9	No	No	No	No
Proprietary detergents	No	No	No	No

Product: Hartland Citrus Cleaner				
Monoethanolamine	No	No	No	No
D-limonene	No	No	No	No

• Federal, State & International Regula Ingredient	tions – part 2 • CERCLA	RCRA 261.33	TSCA 8(d)
Glycol ether EB	No	No	Yes
Dimethyl Glutarate	No	No	No
Dimethyl Succinate	No	No	No
Dimethyl Adipate	No	No	No
Nonoxynol-9	No	No	Yes
Proprietary detergents	No	No	No
Monoethanolamine	No	No	No
D-limonene	No	No	No

Chemical Weapons Convention:NoTSCA 12(b):yesCDTA:NoSARA 311/312:Acute: YesChronic: NoFire: noPressure: No

Reactivity: No

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

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.

**Abbreviations:** NE = Not established NDA = No Data available > = Greater than < = Less than ND = Not determined

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