

# Material Safety Data Sheet

**Product: Hartland Tar & Asphalt Remover**

**Phone: 800-658-9051**

Date of Preparation: 02-24-06

## 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
N-methyl pyrrolidone	872-50-4		AIHA: 10 ppm, 8-hour, TWA
Dimethyl Glutarate	1119-40-0		TWA: 10mg/m <sup>3</sup>
Dimethyl Succinate	106-65-0		TWA: 10mg/m <sup>3</sup>
Dimethyl Adipate	627-93-0		TWA: 10mg/m <sup>3</sup>
Nonoxynol-9	26027-38-3		None established
Proprietary detergents			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) 800-633-0667**

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, and respiratory irritant. Affects central nervous system.

**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. Large doses may cause sore throat, coughing, labored respiration, dizziness, dullness, abdominal pain, vomiting, central nervous system depression, convulsions, and death due to respiratory failure.

**Ingestion:** Ingestion is not expected to be a primary route of exposure. Do not ingest. Material will cause severe burns 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 and scratching 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

### Section 4 – First Aid Measures

<b>Inhalation:</b>	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.
<b>Ingestion:</b>	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.
<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	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. Take exposed individual immediately to a health care professional, preferably an ophthalmologist, for emergency first aid and further evaluation

### Section 5 – Fire Fighting Measures

<b>Fire: Flash point</b>	199°F CC Autoignition temperature: 655F. High heat or direct flame is necessary to cause ignition.
<b>Unusual Fire and Explosion Hazards:</b>	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.
<b>Fire Extinguishing Media:</b>	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.
<b>Special Information:</b>	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

<b>Spills:</b>	Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate protective equipment as specified in Section 8. 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.
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### Section 7 – Handling and Storage

Product should be stored between 40 and 100°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

<b>Ventilation System:</b>	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.
<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 mists.
<b>Skin Protection:</b>	Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption. Clean body-covering clothing. Maintain quick-drench facility in the work area.
<b>Eye Protection:</b>	Eye protection must be worn. Wear safety glasses with side shields or vented splash proof goggles
<b>Other Equipment:</b>	Eyewash stations and showers should be available in areas where this material is used and stored. Rubber apron and boots.

### Section 9 – Physical and Chemical Properties

<b>Appearance:</b> Clear liquid, slight haze	<b>Boiling Point:</b> Greater than 212°F
<b>Odor:</b> Mild	<b>Melting Point:</b> Not applicable
<b>Solubility:</b> Moderate	<b>Vapor Density (Air = 1)</b> >1
<b>Specific Gravity:</b> 1.015 – 1.030	<b>Vapor Pressure (mm Hg)</b> 0.5 @ 25C (77F)
<b>pH:</b> 9.4 – 9.8	<b>Evaporation Rate (BuAc=1)</b> Less than 1

### Section 10 – Stability and Reactivity

<b>Stability:</b>	Stable at room temperature.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide or carbon monoxide, smoke
<b>Hazardous Polymerizations:</b>	Will not occur.
<b>Incompatibilities:</b>	Avoid contact with acids and oxidizing materials. May attack some plastics.
<b>Conditions to Avoid:</b>	Heat, flames, ignition sources, and incompatibles.

### Section 11 – Toxicological Information

Ingredient	-----NTP Carcinogen-----		IARC Category
	Known	Anticipated	
N-methyl pyrrolidone	No	No	None
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

### Section 12 – Ecological Information

<b>Ecological Fate:</b>	N-methyl pyrrolidone : When released into the soil, these materials are expected to leach into groundwater. When released into the soil, may evaporate to a moderate extent. When released into the soil, may biodegrade to a moderate extent. When released into water, are not expected to evaporate significantly. This material is not expected to significantly bioaccumulate. When released into the air,
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are expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

**Ecological Toxicity:** N-methyl pyrrolidone: 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)

**Section 15 – Regulatory Information**

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

<b>Ingredient</b>	<b>TSCA</b>	<b>EC</b>	<b>Japan</b>	<b>Australia</b>
N-methyl pyrrolidone	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

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

<b>Ingredient</b>	<b>Korea</b>	<b>-----Canada-----</b>		<b>Philippines</b>
		<b>DSL</b>	<b>NDSL</b>	
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

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

<b>Ingredient</b>	<b>--- SARA 302 ---</b>		<b>----- SARA 313 -----</b>	
	<b>RQ</b>	<b>TPQ</b>	<b>List</b>	<b>Chemical Catg.</b>
N-methyl pyrrolidone	No	No	Yes	No
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

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

<b>Ingredient</b>	<b>CERCLA</b>	<b>RCRA 261.33</b>	<b>TSCA 8(d)</b>
N-methyl pyrrolidone	No	No	No
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

