

# Safety Data Sheet: Permastick, M/M..

Supersedes Date 01/13/2011

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Permastick, M/M..  
**Recommended use** Lubricant  
**Information on Manufacturer**  
CERTIFIED LABS, DIV. OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** C0V1  
**Chemical nature** Solvent blend  
**Emergency Telephone Number**  
CHEMTREC® 800-424-9300  
**Telephone inquiry**  
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** amber

**Physical State** Liquid

**Odor** solvent

### GHS

#### Classification

##### Physical Hazards

Flammable liquids

Category 2

##### Health Hazard

Aspiration Toxicity

Category 1

Acute Dermal Toxicity

Category 4

Acute Inhalation Toxicity - Dusts and Mists

Category 4

Serious Eye Damage/Eye Irritation

Category 2

Specific target organ systemic toxicity (single exposure)

Category 3

Specific target organ systemic toxicity (repeated exposure)

Category 2

##### Other hazards

None

### Labeling

#### Signal Word

**DANGER**



#### Hazard Statements

H225 - Highly flammable liquid and vapor

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H304 - May be fatal if swallowed and enters airways

H373 - May cause damage to organs through prolonged or repeated exposure

#### Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P270 - Do not eat, drink or smoke when using this product

P260 - Do not breathe vapor or mist

P271 - Use in a well-ventilated area.

P280 - Wear protective gloves, protective clothing and eye protection.

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P312 - Call a physician if unwell.

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs, get medical attention.

P362 - Take off contaminated clothing and wash before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents and container in accordance with applicable regulations.

35 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Petroleum distillates, hydrotreated light	64742-47-8	30-60

Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	64742-53-6	15-40
Ethyl acetate	141-78-6	10-30
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	5-10
Petroleum distillate	8052-41-3	5-10
Sodium sulfonate	68608-26-4	5-10
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5	1-5
Nonane	111-84-2	1-5

#### 4. FIRST AID MEASURES

<b>General advice</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
<b>Inhalation</b>	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
<b>Notes to physician</b>	Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.

#### 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b>	69.8 °F / 21 °C	<b>Method</b>	Seta closed cup
<b>Flammability Limits in Air % Solvent mixture.</b>		<b>Upper</b>	11.5
		<b>Lower</b>	0.6
<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
<b>Specific hazards arising from the chemical</b>	Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health 2</b>	<b>Flammability 3</b>	<b>Instability 0</b>
<b>HMIS</b>	<b>Health 2</b>	<b>Flammability 3</b>	<b>Instability 0</b>

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
<b>Neutralizing Agent</b>	Not applicable.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists.
<b>Storage</b>	Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.
<b>Storage Temperature</b>	<b>Minimum</b> 40 °F / 4 °C
<b>Storage Conditions</b>	<b>Indoor</b> X <b>Outdoor</b> X <b>Maximum Heated</b> 120 °F / 49 °C <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Petroleum distillates, hydrotreated light	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	5 mg/m <sup>3</sup> as oil mist	10 mg/m <sup>3</sup> as oil mist	No data available
Ethyl acetate	TWA: 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm

		TWA: 1400 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 1400 mg/m <sup>3</sup>
Solvent naphtha (petroleum), medium aliphatic	No data available	No data available	No data available
Petroleum distillate	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m <sup>3</sup>	IDLH: 20000 mg/m <sup>3</sup> Ceiling: 1800 mg/m <sup>3</sup> TWA: 350 mg/m <sup>3</sup>
Sodium sulfonate	No data available	No data available	No data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	IDLH: 2,500 mg/m <sup>3</sup> ; STEL 10 mg/m <sup>3</sup> ; TWA: 5 mg/m <sup>3</sup>
Nonane	TWA: 200 ppm	No data available	TWA: 200 ppm TWA: 1050 mg/m <sup>3</sup>

**Engineering Measures**

Use with local exhaust ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Personal Protective Equipment****Eye/Face Protection**

Tightly fitting safety goggles.

**Skin Protection**

Wear suitable protective clothing, Impervious gloves.

**Respiratory Protection**

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations**

Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	amber	<b>Odor</b>	solvent
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Transparent
<b>pH</b>	Not applicable	<b>Specific Gravity</b>	0.84
<b>Evaporation Rate</b>	0.3 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	70.1
<b>VOC Content (%)</b>	36.2	<b>VOC Photoreactive (Y/N)</b>	Yes
<b>VOC Content (g/L)</b>	297	<b>Vapor Pressure</b>	8.4 mmHg @ 70°F
<b>Vapor Density</b>	3.2	<b>Solubility</b>	Negligible
<b>n-Octanol/Water Partition</b>	No data available	<b>Melting Point/Range</b>	No data available
<b>Decomposition Temperature</b>	No data available	<b>Boiling Point/Range</b>	203 °F / 95 °C
<b>Flammability (solid, gas)</b>	No data available	<b>Method</b>	Seta closed cup
<b>Flash Point</b>	69.8 °F / 21 °C		
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %</b>	Solvent mixture.	<b>Upper 11.5 Lower 0.6</b>	

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	None known
<b>Incompatible Products</b>	Strong oxidizing agents, Strong acids, Strong bases, Amines.
<b>Hazardous Decomposition Products</b>	Carbon oxides, Sulfur oxides, Sodium oxides.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

**Product Information**

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

<b>Principle Route of Exposure</b>	Skin contact, Eye contact.
<b>Primary Routes of Entry</b>	Inhalation, Ingestion, Skin Absorption.

**Acute Effects**

<b>Eyes</b>	Severe eye irritant.
<b>Skin</b>	Causes skin irritation. May be absorbed through the skin in harmful amounts. Repeated exposure may cause skin dryness or cracking.
<b>Inhalation</b>	May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes. Aspiration hazard if swallowed - can enter lungs and cause damage.
<b>Chronic Toxicity</b>	Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Liver and kidney injuries may occur. Blood disorder may occur after prolonged inhalation.
<b>Target Organ Effects</b>	Liver, Central nervous system, Cardiovascular system, Kidney, Eyes, Skin, Respiratory system.
<b>Aggravated Medical Conditions</b>	Skin disorders, Respiratory system, Liver disorders, Kidney disorders, Blood disorders, Neurological disorders.

## Component Information

**Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Petroleum distillates, hydrotreated light	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h	no data available	no data available
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	no data available
Ethyl acetate	= 5620 mg/kg ( Rat )	> 20 mL/kg ( Rabbit )	no data available	no data available	no data available
Solvent naphtha (petroleum), medium aliphatic	> 5000 mg/kg ( Rat )	= 3000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h	no data available	no data available
Petroleum distillate	no data available	no data available	no data available	no data available	no data available
Sodium sulfonate	no data available	no data available	no data available	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	no data available	no data available	no data available
Nonane	no data available	no data available	= 3200 ppm ( Rat ) 4 h	no data available	no data available

**Chronic Toxicity**

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	respiratory system, liver, kidney, CNS
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system
Ethyl acetate	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Solvent naphtha (petroleum), medium aliphatic	no data available	no data available	no data available	no data available	CNS, liver, kidneys
Petroleum distillate	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, kidneys
Sodium sulfonate	no data available	no data available	no data available	no data available	no data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system
Nonane	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin

**Carcinogenicity**

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Ethyl acetate	not applicable	not applicable	not applicable	not applicable	not applicable
Solvent naphtha (petroleum), medium aliphatic	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillate	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium sulfonate	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	not applicable	not applicable	not applicable	not applicable	not applicable
Nonane	not applicable	not applicable	not applicable	not applicable	not applicable

**12. ECOLOGICAL INFORMATION**

## Product Information

No information available.

## Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Petroleum distillates, hydrotreated light	no data available	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis	no data available	LC50= 4720 mg/L 96 h	N/A

		macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h			
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	no data available	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	no data available	EC50> 1000 mg/L 48 h	N/A
Ethyl acetate	EC50 = 3300 mg/L Desmodesmus subspicatus 48 h	LC50 220 - 250 mg/L Pimephales promelas 96 h LC50 = 484 mg/L Oncorhynchus mykiss 96 h LC50 352 - 500 mg/L Oncorhynchus mykiss 96 h	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50= 560 mg/L 48 h	0.6
Solvent naphtha (petroleum), medium aliphatic	EC50 = 450 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 800 mg/L Pimephales promelas 96 h	no data available	EC50> 100 mg/L 48 h	N/A
Petroleum distillate	no data available	no data available	no data available	no data available	N/A
Sodium sulfonate	no data available	no data available	no data available	no data available	N/A
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	LC50 > 5000 mg/L Oncorhynchus mykiss 96 h	no data available	EC50> 1000 mg/L 48 h	N/A
Nonane	no data available	no data available	no data available	no data available	N/A

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Product Disposal**

Dispose of in accordance with local regulations.

**Container Disposal**

Empty containers should be taken for local recycling, recovery, or waste disposal.

### 14. TRANSPORT INFORMATION

**DOT**

**Proper Shipping Name** Flammable liquids, n.o.s.  
**Hazard Class** 3  
**UN-No** UN1993  
**Packing Group** II  
**Description** UN1993, Flammable liquids, n.o.s.(Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG II

**TDG**

**Hazard Class** 3  
**UN-No** UN1993  
**Packing Group** II

**ICAO**

**UN-No** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**Packing Group** II  
**Shipping Description** UN1993, Flammable liquid, n.o.s.,(Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG II

**IATA**

**UN-No** UN1993  
**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**Packing Group** II  
**ERG Code** 3L  
**Shipping Description** UN1993,Flammable liquid, n.o.s.,(Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG II

**IMDG/IMO**

**Proper Shipping Name** Flammable liquid, n.o.s.  
**Hazard Class** 3  
**UN-No** UN1993  
**Packing Group** III  
**EmS No.** F-E, \_S-E\_  
**Shipping Description** UN1993, Flammable liquid, n.o.s.(Aliphatic Petroleum Distillates, Ethyl Acetate),3,PG III

### 15. REGULATORY INFORMATION

**Inventories**

TSCA Complies  
 DSL Complies

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	Yes	Yes	No	No

**CERCLA**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Petroleum distillates, hydrotreated light	Not applicable	Not applicable
Petroleum distillates, hydrotreated light naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Ethyl acetate	5000 lb	Not applicable
Solvent naphtha (petroleum), medium aliphatic	Not applicable	Not applicable
Petroleum distillate	Not applicable	Not applicable
Sodium sulfonate	Not applicable	Not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	Not applicable	Not applicable
Nonane	Not applicable	Not applicable

<b>16. OTHER INFORMATION</b>
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Prepared By Angela Hutson  
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 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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