

Revision Date 20-Jun-2006

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product code** DL1253  
**Product name** OPEN & SHUT  
**Recommended Use** Lubricant  
**Supplier** Drummond American Corporation  
 600 Corporate Woods Parkway  
 Vernon Hills, IL 60061  
 (847) 913-9313  
**Emergency telephone number** (888) 426-4851

**2. HAZARDS IDENTIFICATION**

**Color** Amber **Odor** Solvent **Form** Liquid

**Aggravated Medical Conditions** None Known  
**Principal Routes of Exposure** Skin contact. Skin absorption. Inhalation. Ingestion. Eyes.

**Potential health effects**

**Eyes** Contact with eyes may cause irritation.  
**Skin** Prolonged skin contact may defat the skin and produce dermatitis.  
**Inhalation** Extreme overexposure may cause. Irritation of the nose or throat. Central nervous system damage. Light headedness. Nausea. Stupor. Weakness. Changes in heart rate.  
**Ingestion** Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Sore throat. Abdominal pain. Central nervous system damage. Aspiration hazard. May cause severe lung damage if aspirated into the lungs from ingestion or vomiting. Harmful or fatal if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	30-60
Trichloroethylene	79-01-6	30-60

**4. FIRST AID MEASURES**

<b>Eye contact</b>	Remove contact lenses. Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Remove and wash contaminated clothing before re-use. Seek medical attention if irritation persists.
<b>Ingestion</b>	Do not induce vomiting. Vomiting may cause aspiration pneumonia. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water or milk . Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Remove to fresh air. Administer artificial respiration if not breathing. If breathing is difficult, give oxygen. Call a physician immediately.

## 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	No data available
<b>Flash point °F</b>	No data available
<b>Method</b>	No information available
<b>Autoignition temperature °C</b>	Not Applicable
<b>Autoignition temperature °F</b>	Not Applicable
<b><u>Flammability Limits (% in Air)</u></b>	
<b>Upper</b>	No data available
<b>Lower</b>	No data available

### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam.

### **Special protective equipment for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### **Special Fire-Fighting Procedures**

Do not release run-off from fire control methods to sewers or waterways . Dike and collect water used to fight fire .

### **Fire and Explosion Hazards**

Empty containers contain residue and/or vapors. Do not weld, cut, pressurize, braze, solder, drill, grind, or expose such containers to heat, sparks, flame, static electricity, or other sources of ignition. They may explode and cause injury or death. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat .

### **Sensitivity to shock**

No information available.

### **Sensitivity to static discharge**

No information available.

## 6. ACCIDENTAL RELEASE MEASURES

### **Methods for cleaning up**

Soak up with inert absorbent material. Place in suitable container for disposal as hazardous waste. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs.

## 7. HANDLING AND STORAGE

### Handling

Ensure adequate ventilation, especially in confined areas. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such contents to heat, flames, and other sources of ignition. Handle empty containers as if they were full. Avoid contact with skin, eyes and clothing. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Handle in accordance with good industrial hygiene and safety practice.

### Storage

Store in a well ventilated area. Keep away from open flames, hot surfaces and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Petroleum distillates, hydrotreated light naphthenic	-	-	-	-
Trichloroethylene	100 ppm	200 ppm	50 ppm	100 ppm

### Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, or both, to keep below the TLV's in the worker's breathing zone and the general area.

### Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before eating or using the washroom. Remove and wash contaminated clothing before re-use.

### Personal protective equipment

#### Respiratory protection

Follow OSHA respirator regulations (29 CFR 1910.134) and if necessary, wear a MSHA/NIOSH approved respirator. Use a positive pressure supplied air respirator. if there is any potential for an uncontrolled release. where exposure levels are not known.

#### Hand Protection

For prolonged or repeated skin contact, use a chemically resistant glove such as nitrile or neoprene. Wash hands with soap and water after removing gloves. Dry hands thoroughly before re-applying gloves. .

#### Eye protection

ANSI approved safety glasses or splash goggles with face shield are recommended.

#### Skin and body protection

None necessary under normal conditions

#### Other Protective Equipment

A safety shower and eye wash station should be available for emergency use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Liquid	<b>Color</b>	Amber
<b>Odor</b>	Solvent	<b>Odor Threshold</b>	No information available
<b>pH</b>	No data available	<b>Specific Gravity</b>	No data available
<b>Vapor pressure</b>	No data available	<b>Vapor density</b>	>Air
<b>Evaporation Rate</b>	No data available	<b>Density</b>	7.42 lbs/gal
<b>VOC Content</b>	No data available	<b>Water solubility</b>	Insoluble
<b>Partition Coefficient (n-octanol/water)</b>	Not Applicable		
<b>Boiling point/range °C</b>	No data available	<b>Boiling point/range °F</b>	No data available
<b>Melting point/range °C</b>	Not Applicable	<b>Melting point/range °F</b>	Not Applicable
<b>Flash point °C</b>	No data available	<b>Flash point °F</b>	No data available

## 10. STABILITY AND REACTIVITY

### Stability

Stable under normal conditions.

### Conditions to avoid

Heat, flames and sparks.

### Incompatibility

Alkalis. Strong oxidizing agents. Reducing agents.

### Hazardous Decomposition Products

Carbon monoxide. Unidentifiable organic compounds. Hydrogen chloride fumes.

### Polymerization

Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
<i>Petroleum distillates, hydrotreated light naphthenic 64742-53-6</i>	5000 mg/kg	2000 mg/kg	2.18 mg/L
<i>Trichloroethylene 79-01-6</i>	4290 mg/kg	20 g/kg	26300 ppm 8000 ppm

### Synergistic Products

None known

### Potential health effects

**Sensitization**

None known

**Chronic toxicity**

See Section 2 .

**Mutagenic effects**

None known

**Teratogenic effects**

None known

**Reproductive toxicity**

None known

**Target Organ Effects**

Long term exposure to vapor may cause kidney damage.  
 Long term exposure to vapor may cause liver damage.

**Carcinogenic effects**

NTP and IARC have determined that exposure to trichloroethylene is reasonably anticipated to be carcinogenic to humans (IARC Group 2A). Risk of cancer depends on duration and level of exposure. .

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Petroleum distillates, hydrotreated light naphthenic	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Trichloroethylene	A5 - Not Suspected as a Human Carcinogen	Group 2A	Not Listed	Listed	Listed

## 12. ECOLOGICAL INFORMATION

No Information Available

## 13. DISPOSAL CONSIDERATIONS

**Disposal Information**

Please recycle empty container whenever possible.

**Waste from residues / unused products**

Dispose in accordance with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

**DOT**

UN2810 Toxic, liquids, organic, n.o.s.(Trichloroethylene/Petroleum distillates),Class 6.1, PG III, RQ  
*Exception:* (Poisonous liquid (not by inhalation) PG III not more than 5.0L) Consumer Commodity ORM-D

**TDG**

UN2810 Toxic, liquids, organic, n.o.s. (Trichloroethylene/Petroleum distillates), Class 6.1, PG III

**IMDG/IMO**

UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (Trichloroethylene/Petroleum distillates), lass 6.1, PG III

**IATA**

UN2810 Toxic liquid, organic, n.o.s.\* (Trichloroethylene/Petroleum distillates), Class 6.1, PG III

**MEX**

UN2810 LIQUIDO TOXICO ORGANICO, N.E.P. (Trichloroethylene/Petroleum distillates), 6.1,III

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
Trichloroethylene	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Petroleum distillates, hydrotreated light naphthenic	Not Listed	Not Listed	Not Listed
Trichloroethylene	Listed	Listed	Carcinogen

Chemical Name	EINECS	DSL	NDSL	TSCA
Petroleum distillates, hydrotreated light naphthenic	X	X	-	X
Trichloroethylene	X	X	-	X

**CPRC**

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

**16. OTHER INFORMATION**

NFPA		HMIS	
Health	-	Health	3
Flammability	-	Flammability	1
Reactivity	-	Physical Hazard	0

**Prepared By**

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.