

# Material Safety Data Sheet



Revision Date 04-Aug-2005

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product code** DA7211  
**Product name** Leverage  
**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

### Emergency Overview

Flammable. Harmful by inhalation. Harmful if swallowed.

**Color** Blue

**Odor** Solvent

**Form** Aerosol

**Aggravated Medical Conditions** No information available  
**Principal Routes of Exposure** Skin contact. Skin absorption. Inhalation. Eyes.

### Potential health effects

**Eyes** Exposure to vapors may cause the following effects: Irritation. Pain. Tearing. Reddening. Swelling. Stinging sensation. Feeling like that of fine dust in the eye.

**Skin** Repeated or prolonged exposure may cause: Defatting. Skin Irritation. Dermatitis.

**Inhalation** Long-term exposure may cause the following effects: Headaches. Dizziness. Nausea. Decreased blood pressure. Changes in heart rate. Cyanosis. Harmful by inhalation.

**Ingestion** Harmful or fatal if swallowed. Corrosive. Irritating to mouth, throat and stomach.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	30
Heptane (n-)	142-82-5	25
Isopar M Fluid	64742-47-8	15
Propane/Isobutane/N-Butane	68476-86-8	30

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	Flush eyes with plenty of water. Seek medical attention if irritation persists.
<b>Skin contact</b>	Flush skin with water. Remove and wash contaminated clothing before re-use. Seek medical attention immediately.
<b>Ingestion</b>	Seek medical attention immediately. Do not induce vomiting. Give victim a glass of milk. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point °C</b>	-104
<b>Flash point °F</b>	-156
<b>Method</b>	Seta closed cup
<b>Autoignition temperature °C</b>	No data available
<b>Autoignition temperature °F</b>	
<b>Flammability Limits (% in Air)</b>	
Upper	9.5%
Lower	0.5%

##### Specific Information for Aerosol Products

<b>Flame extension</b>	Unknown
<b>Flashback</b>	Unknown

##### **Suitable extinguishing media**

Alcohol foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Foam. Water fog.

##### **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 .

##### **Specific hazards**

Flash back possible over considerable distance.

##### **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. Fire and Explosion Hazards.

**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 (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in suitable container for disposal as hazardous waste.

## 7. HANDLING AND STORAGE

**Handling**

Thoroughly wash hands and exposed skin after handling.

**Storage**

Containers exposed to extreme heat may burst. Keep away from heat and sources of ignition. Do not freeze.

**NFPA Storage Code**

Store as Level 3 Aerosol (NFPA 30B)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Petroleum distillates, hydrotreated heavy naphthenic	-	-	-	-
Propane/Isobutane/N-Butane	-	-	-	N/D
Heptane (n-)	2000 mg/m <sup>3</sup> 500 ppm	-	400 ppm	500 ppm
Isopar M Fluid	-	-	-	-

**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. Use in a well ventilated area.

**Hygiene measures**

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

**Personal protective equipment****Respiratory protection**

Wear a respirator or gas mask with appropriate NIOSH approved cartridge or canister, or supplied air equipment, if airborne concentration limits are exceeded. If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Wear a positive-pressure supplied-air respirator.

**Hand protection**

Chemical resistant gloves.

**Eye protection**

Wear safety glasses with side shields. Goggles. Face shield is recommended. Avoid contact with eyes.

**Skin and body protection**

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Aerosol	<b>Color</b>	Blue
<b>Odor</b>	Solvent	<b>Odor Threshold</b>	No information available
<b>pH</b>	No data available	<b>Specific Gravity</b>	0.7130
<b>Vapor pressure</b>	No data available	<b>Vapor density</b>	>Air
<b>Evaporation Rate</b>	No data available	<b>VOC Content</b>	49.53 %
<b>Water solubility</b>	No data available	<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Boiling point/range °C</b>	-41 - 257	<b>Boiling point/range °F</b>	-42 - 495
<b>Melting point/range °C</b>	0	<b>Melting point/range °F</b>	32
<b>Flash point °C</b>	-104	<b>Flash point °F</b>	-156

## 10. STABILITY AND REACTIVITY

**Stability**

Stable under recommended storage conditions.

**Conditions to avoid**

Avoid sources of ignition. Avoid open flames. Do not use near welding arcs.

**Materials to avoid**

Strong acids. Oxidizers. Amines.

**Hazardous decomposition products**

Carbon oxides. peroxides. Chloride. Chlorides.

**Polymerization**

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5</i>	5000 mg/kg	2000 mg/kg	2.18 mg/L
<i>Propane/Isobutane/N- Butane 68476-86-8</i>	-	-	-

<i>Heptane (n-)</i> 142-82-5	-	-	103 g/m <sup>3</sup>
<i>Isopar M Fluid</i> 64742-47-8	5000 mg/kg	2000 mg/kg	5.2 mg/L

**Synergistic Products**

No information available

**Potential health effects****Sensitization**

No information available.

**Chronic toxicity**

No information available.

**Mutagenic effects**

No information available.

**Teratogenic effects**

No information available

**Reproductive toxicity**

No information available

**Target Organ Effects**

No information available

**Carcinogenic effects**

See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Petroleum distillates, hydrotreated heavy naphthenic	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Heptane (n-)	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isopar M Fluid	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**12. ECOLOGICAL INFORMATION**

No information available

**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Discard container or liner in accordance with federal, state, and local regulations.

**Waste from residues / unused products**

No information available

**14. TRANSPORT INFORMATION****DOT**

Consumer commodity (Propane/Isobutane/N-Butane,Heptane (n-)),ORM-D

**TDG**

AEROSOLS(Propane/Isobutane/N-Butane,Heptane (n-)), Class 2.1,UN1950

**IMDG/IMO**

Aerosols(Propane/Isobutane/N-Butane,Heptane (n-)),UN1950

**IATA**

Aerosols, flammable(Propane/Isobutane/N-Butane,Heptane (n-)),UN1950  
Hazard Class 2.1

**MEX**

UN1950 Aerosols(Propane/Isobutane/N-Butane,Heptane (n-)),2.2,

## 15. REGULATORY INFORMATION

**State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Petroleum distillates, hydrotreated heavy naphthenic	Not Listed	Not Listed	Not Listed
Propane/Isobutane/N-Butane	Not Listed	Not Listed	Not Listed
Heptane (n-)	Listed	Listed	Not Listed
Isopar M Fluid	Not Listed	Not Listed	Not Listed

**International Inventories**

Chemical Name	EINECS	DSL	NDSL	TSCA
Petroleum distillates, hydrotreated heavy naphthenic	X	X	-	X
Propane/Isobutane/N-Butane	X	X	-	X
Heptane (n-)	X	X	-	X
Isopar M Fluid	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	1
Flammability	-		

<b>Reactivity</b>	-	<b>Flammability</b>	4
		<b>Physical Hazard</b>	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.