

# SAFETY DATA SHEET

## 1. Identification

Product number Product identifier Company information	MS-1023 <b>LP-401 LUBRICANT</b> Mark Supply, Inc. 156 Progress Cir. Venice, FL 34285	
Company phone	941-485-8199 800-535-5053 INFOTRAC	
Emergency telephone US Version #	01	
Recommended use Recommended restrictions	Lubricant None known.	

2. Hazard(s) identificationPhysical hazardsFlammable aerosols

Physical hazards	Flammable aerosols	Category 1
Health hazards	Acute toxicity, inhalation	Category 3
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		

Signal word	Danger
Hazard statement	Extremely flammable aerosol. May be fatal if swallowed and enters airways.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.
Storage	Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (Petroleum), Hydrotreated Light		64742-47-8	40 - 60
Diethylene Glycol Monobutyl Ether		112-34-5	2.5 - 10
Propane		74-98-6	2.5 - 10
Other components below reportable lev	/els		20 - 40

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical Skin contact attention if irritation develops and persists. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Get medical attention if irritation develops and persists. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Direct contact with eyes may cause temporary irritation. Aspiration may cause pulmonary edema Most important and pneumonitis. symptoms/effects, acute and delayed Treat symptomatically. Indication of immediate medical attention and special treatment needed **General information** Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Extremely flammable aerosol.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use only outdoors or in a well-ventilated area. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Provide adequate ventilation. Avoid breathing mist or vapor.
Conditions for safe storage, including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep in a cool place. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

### 8. Exposure controls/personal protection

#### Occupational exposure limits

US. OSHA Table Z-1 Limits for A	ir Contaminants (29 CFR 1910.	1000)
Components	Туре	Value
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Diethylene Glycol Monobutyl Ether (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm	
Biological limit values	No biological exposure limits noted for	or the ingredient(s).	
Appropriate engineering controls	Explosion-proof general and local ex	haust ventilation.	
Individual protection measures	, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shield	s (or goggles).	
Hand protection	Wear protective gloves.		
Skin protection			
Other	Wear suitable protective clothing.		
Respiratory protection	If engineering controls do not mainta limits (where applicable) or to an acc been established), an approved resp	eptable level (in countries where	1
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.	
General hygiene considerations			

# 9. Physical and chemical properties

, ,	•
Appearance	
Physical state	Liquid.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	193.99 °F (89.99 °C) estimated
range	450.0 °F ( 404.4 °C) Depending to stimuted
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	0.9 % estimated
Flammability limit - upper (%)	9.5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	27.01 psig @70F estimated
Vapor density	Not available.
Relative density	0.954 g/cm3 estimated
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	534.97 °F (279.43 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.65 g/cm3 estimated
Flammability class	Flammable IB estimated
Heat of combustion	41.6 kJ/g estimated
Heat of combustion (NFPA 30B)	28.01 kJ/g estimated
Percent volatile	14.32 % estimated
Specific gravity	0.954 estimated
VOC (Weight %)	30.35 % estimated
10. Stability and reactivity	,

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Fluorine. Chlorine. Nitrates.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.
Inhalation	Not available.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.

#### Information on toxicological effects

Acute toxicity

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
Diethylene Glycol Monobut	tyl Ether (CAS 112-34-5)	
Acute		
Dermal		
LD50	Rabbit	2764 mg/kg, 24 Hours
	Rat	2021 mg/kg
Inhalation		
LC50	Rat	74 mg/l/4h
Oral		
LD100	Rabbit	4000 mg/kg
LD50	Guinea pig	2000 mg/kg
	Mouse	2410 mg/kg
	Rabbit	2500 - 3000 mg/kg
	Rat	3306 mg/kg

Components	Species		Test Results
Distillates (Petroleum), Hydrotreat	ed Light (CAS	64742-47-8)	
Acute			
Dermal			
LD50	Rabbit		> 2000 mg/kg
			> 2000 mg/kg, 24 Hours
Inhalation			
LC50	Rat		> 7.5 mg/l, 6 Hours
			> 4.6 mg/l, 4 Hours
Oral			
LD50	Rat		> 5000 mg/kg
Propane (CAS 74-98-6)			
Acute			
Inhalation			4007 # 400 NF 4
LC50	Mouse		1237 mg/l, 120 Minutes
			52 %, 120 Minutes
	Rat		1355 mg/l
			658 mg/l/4h
Skin corrosion/irritation	Prolonged sl	kin contact may cause temporary irritat	ion.
Serious eye damage/eye rritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
OSHA Specifically Regulate Not listed.	d Substances	s (29 CFR 1910.1001-1050)	
Reproductive toxicity	This product	t is not expected to cause reproductive	or developmental effects.
Specific target organ toxicity - single exposure	Not classifie	d.	
Specific target organ toxicity - repeated exposure	Not classifie	d.	
Aspiration hazard	May be fatal	if swallowed and enters airways.	
12. Ecological information			
Ecotoxicity	Toxic to aqu	atic life with long lasting effects.	
Product		Species	Test Results
INDUSTRIAL RD-90 (CAS Mi	xture)		
Aquatic			4007 // 4013
	EC50	Daphnia	4837 mg/L, 48 Hours
	LC50	Fish	123 mg/L, 96 Hours
Components		Species	Test Results
Diethylene Glycol Monobutyl I Aquatic	Ether (CAS 11	2-34-5)	
	EC50	Daphnia	2803 mg/L, 48 Hours
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours

Components		Species	Test Results
Distillates (Petroleum), Hydr	otreated Light	(CAS 64742-47-8)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Persistence and degradability	No data is	available on the degradability of this prod	duct.
Bioaccumulative potential	No data av	vailable.	
Partition coefficient n-octa	nol / water (le	og Kow)	
Diethylene Glycol Monobuty	Ether	0.56	
Propane		2.36	
Mobility in soil	No data av	vailable.	
Other adverse effects			e depletion, photochemical ozone creation ential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Special precautions for user	<ul> <li>Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.</li> </ul>
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

#### ΙΑΤΑ

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

#### DOT







**General information** 

IMDG Regulated Marine Pollutant.

# 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	ance List (40 CFR 302.4)	
Not listed. SARA 304 Emergency relea	se notification	
Not regulated.		
	ed Substances (29 CFR 1910.1001-1050)	
Not listed.		
-	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazar	dous substance	
Not listed.		
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
Propane (CAS 74-98-6)	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Safe Drinking Water Act	Not regulated.	
(SDWA)		-:-t -
US state regulations	This product does not contain a chemical known to the State of California to or defects or other reproductive harm.	cause cancer, birth
US. Massachusetts RTI		
Propane (CAS 74-98	<sup>3-6)</sup> r and Community Right-to-Know Act	
Propane (CAS 74-98		
• •	er and Community Right-to-Know Law	
Propane (CAS 74-98	3-6)	
US. Rhode Island RTK		
Propane (CAS 74-98		
	water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not isted as carcinogens or reproductive toxins.	known to contain
International Inventories		
Country(s) or region	-	n inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

#### Country(s) or region Inventory name

#### United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	09-15-2015
Version #	01
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.