

SAFETY DATA SHEET

Revision Date 10-May-2013 **Revision Number** 0 **Issuing Date** 10-May-2013

Section 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 60242

Product Name JET-LUBE® PS TERMINAL

PS TERMINAL **Synonyms**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Lubricants, Greases and Release Products, metal surface treatment product

No information available Uses advised against

1.3. Details of the supplier of the safety data sheet

Importer Company Jet-Lube, Inc. Jet-Lube (UK) Ltd

Jet-Lube House 4849 Homestead Rd.

Reform Road Suite 232

Maidenhead Houston, TX 77379 Berkshire UK TEL: 713-670-5700

SL6 8BY TEL: 44 1628-631913 (8:00 a.m. - 5:00

p.m.)

For further information, please contact

E-mail Address lab@jetlube.com

1.4. Emergency telephone number

Emergency Telephone +1 703-741-5500

Number

Europe 112

Section 2. Hazards identification

2.1. - Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Symbol(s) Not dangerous R-code(s) R52-53

2.2. Label Elements

Indication of danger

Not dangerous R-phrase(s)

No information available.

S-phrase(s)

No information available.

2.3. Other information

Section 3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification	EU - GHS Substance Classification	REACH No.
3,3-Dichloro-1,1,1,2,2-pent afluoropropane (HCFC-225ca)	207-016-9	422-56-0	55-60	R52/53	Aquatic Chronic 3 (H412)	No data available
1,3-Dichloro-1,1,2,2,3-pent afluoropropane (HCFC-225cb)	208-076-9	507-55-1	55-60	-		No data available
Ethane, 2-chloro-1,1,1,2-tetrafluoro-	220-629-6	2837-89-0	30-35	-		No data available
Ethanol	200-578-6	64-17-5	5-10	F;R11	Flam. Liq. 2 (H225)	No data available
Propane, 2-(difluoromethoxymethyl)- 1,1,1,2,3,3,3-heptafluoro-	ELINCS: 422-270-2	163702-08-7	0-5	-		No data available
Butane, 1,1,1,2,2,3,3,4,4-nonafluor o-4-methoxy-	ELINCS: 422-270-2	163702-07-6	0-5	-		No data available

For the full text of the R-phrases mentioned in this Section, see Section 16
For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First aid measures

4.1. Description of first-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if symptoms occur.

Skin Contact Wash off with warm water and soap. Remove and wash contaminated clothing before

re-use. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Do NOT induce vomiting. Consult a physician if necessary

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

4.3. Indication of immediate medical attention and special treatment needed

Notes to Physician Keep victim warm and quiet.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Foam. Dry powder. Carbon dioxide (CO2). Dry sand.

Extinguishing media which must not be used for safety reasons

High volume water jet

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases Ruptured cylinders may rocket.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Stop leak if you can do it without risk. Do not puncture or burn containers.

Ventilate the area.

6.2. Environmental precautions

Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up

Allow substance to evaporate. Dries residue free.

Allow to evaporate If possible, turn leaking containers so that gas escapes rather than liquid

6.4. Reference to other sections

See Section 12 for additional information.

Section 7. Handling and storage

7.1. Precautions for Safe Handling

Handling

No special handling precautions are necessary.

Hygiene Measures

When using, do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Do not store at elevated temperatures.

7.3. Specific end use(s)

Exposure Scenario

No information available.

Other Guidelines

No information available.

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical Name EU The United Kingdom France Spain Germany
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WPS-JLI-107 - JET-LUBE® PS TERMINAL

Ethanol	<u>-</u>	STEL: 3000 ppm	VME: 1000 ppm	VLA-ED: 1000 ppm	MAK: 500 ppm
64-17-5		STEL: 5760 mg/m ³	VME: 1900 mg/m ³	VLA-ED: 1910 mg/m ³	MAK: 960 mg/m ³
		TWA: 1000 ppm	VLCT: 5000 ppm		Ceiling / Peak: 1000
		TWA: 1920 mg/m ³	VLCT: 9500 mg/m ³		ppm
					Ceiling / Peak: 1920
					mg/m³
					TWA: 500 ppm
					TWA: 960 mg/m ³
Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
Ethanol	-	TWA: 1000 ppm	Skin	TWA: 1000 ppm	TWA: 1000 ppm
64-17-5			STEL: 1900 mg/m ³	TWA: 1900 mg/m ³	TWA: 1900 mg/m ³
			TWA: 260 mg/m ³	STEL: 1300 ppm	_
				STEL: 2500 mg/m ³	
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Ethanol	STEL 2000 ppm	STEL: 1000 ppm	NDS: 1900 mg/m ³	TWA: 500 ppm	STEL: 1000 ppm
64-17-5	STEL 3800 mg/m ³	STEL: 1920 mg/m ³		TWA: 950 mg/m ³	''
	MAK: 1000 ppm	MAK: 500 ppm		STEL: 625 ppm	
	MAK: 1900 mg/m ³	MAK: 960 mg/m ³		STEL: 1187.5 mg/m ³	

Derived No Effect Level Predicted No Effect Concentration (PNEC)

No information available No information available.

8.2. Exposure controls

Engineering Measures

Personal protective equipment

Ensure adequate ventilation, especially in confined areas.

Eye Protection Safety glasses with side-shields. **Skin and Body Protection** Chemical resistant apron.

Hand Protection Protective gloves.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental Exposure Controls No information available.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid, Aerosol. **Physical State Appearance** Clear Odor Ether.

Values Remarks/ - Method Property Neutral None known рН Melting Point/Range No data available None known **Boiling Point/Boiling Range** > 74 °C / 165 °F None known Flash Point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known **Vapor Pressure** No data available None known Vapor Density No data available None known **Relative Density** No data available None known **Specific Gravity** 1.43 None known Slightly soluble Water Solubility None known Solubility in other solvents Completely soluble None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known None known No data available **Decomposition Temperature Viscosity** ~1 (@ 40°C) None known

Explosive PropertiesOxidizing Properties
No information available
No information available

9.2. Other information

VOC Content (%) No information available

Section 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Aluminum. Strong inorganic acids. Strong organic acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Burning generates smoke, airborne soot, hydrocarbons and halogenated gases that could be toxic or corrosive.

Section 11. Toxicological information

11.1.

Acute Toxicity

Eye Contact

Product Information

Inhalation High concentrations may cause central nervous system depression resulting in headaches,

dizziness and nausea; continued inhalation may result in unconsciousness and death. Contact with eyes may cause irritation. Causes irritation and pain if splashed into eye.

Skin Contact Prolonged skin contact may cause skin irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Vomiting

may aspirate into lungs and cause chemical pneumonia.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h

SensitizationNo information available.Mutagenic EffectsNo information available.Carcinogenic EffectsNo information available.

Reproductive Toxicity

Developmental Toxicity

STOT - single exposure

STOT - repeated exposure

No information available.

No information available.

No information available.

Target Organ Effects Blood. Central nervous system (CNS). Eyes. Liver. Reproductive system. Respiratory

system. Skin.

Aspiration Hazard No information available.

Section 12. Ecological information

12.1. Toxicity

Ecotoxicity Effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to	Daphnia Magna (Water
			Microorganisms	Flea)
Ethanol		LC50 96 h: 12.0 - 16.0 mL/L	EC50 = 34634 mg/L 30 min	LC50 48 h: 9268 - 14221
		static (Oncorhynchus	EC50 = 35470 mg/L 5 min	mg/L (Daphnia magna)
		mykiss) LC50 96 h: > 100	_	EC50 24 h: = 10800 mg/L
		mg/L static (Pimephales		(Daphnia magna) EC50 48
		promelas) LC50 96 h:		h: = 2 mg/L Static (Daphnia
		13400 - 15100 mg/L		magna)
		flow-through (Pimephales		
		promelas)		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential.

No information available.

Chemical Name	Log Pow	
Ethanol	-0.32	

12.4. Mobility in soil

Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

This product does not contain any known or suspected endocrine disruptors.

Section 13. Disposal considerations

13.1. Waste treatment methods

Waste from Residues / Unused Products

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Do not incinerate. Dispose of in accordance with all European and Local regulations.

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Section 14. Transport information

IMDG/IMO

14.1. UN-Number UN1950 **14.2. Proper Shipping Name** Aerosols

WPS-JLI-107 - JET-LUBE® PS TERMINAL

14.3. Hazard Class

Subsidiary Class See SP63 14.4. Packing Group Not regulated.

Description UN1950, Aerosols, 2.2 (See SP63)

14.5. Marine Pollutant None. 14.6. Special Provisions None. EmS No. F-D. S-U

14.7. Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code

No information available.

RID

14.1. UN-Number UN1950 14.2. Proper Shipping Name Aerosols 14.3. Hazard Class

14.4. Packing Group Not regulated. Description UN1950, Aerosols, 2.2

14.5. Environmental hazard None. 14.6. Special Provisions None. **Classification Code** 5A

ADR

14.1. UN-Number UN1950 14.2. Proper Shipping Name Aerosols 14.3. Hazard Class 2 ADR/RID-Labels 2.2

14.4. Packing Group Not regulated.

Description UN1950, Aerosols, 2.2, (E)

14.5. Environmental hazard None. 14.6. Special Provisions None. **Classification Code** 5A **Tunnel Restriction Code** (E)

ICAO

14.1. UN-Number UN1950 14.2. Proper shipping name Aerosols 14.3. Hazard Class 2.2

14.4. Packing Group Not regulated. Description UN1950, Aerosols, 2.2

14.5. Environmental hazard None. 14.6. Special Provisions None.

IATA

14.1. UN-Number UN1950

14.2. Proper Shipping Name Aerosols, non-flammable

14.3. Hazard Class

14.4. Packing Group Not regulated.

Description UN1950, Aerosols, non-flammable, 2.2

14.5. Environmental hazard None. 14.6. Special Provisions None. **ERG** Code 2L

Section 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA Complies

EINECS/ELINCS -

DSL/NDSL Complies
PICCS Complies
ENCS Complies
IECSC Complies

AICS - KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **AICS** - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

15.2. Chemical Safety Assessment

No information available

Section 16. Other information

Full text of R-phrases referred to under Sections 2 and 3

R11 - Highly flammable

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Key literature references and sources for data

www.ChemADVISOR.com/

Issuing Date 10-May-2013

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Revision Note Initial Release.

This safety data sheet complies with the requirements of Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No. 1907/2006

General Disclaimer

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End of Safety Data Sheet