



MATERIAL SAFETY DATA SHEET

CONFORMS TO DIRECTIVE 2001/58/EC AMENDING DIRECTIVE 91/155/EEC

Section 1. Identification of the Company and the Preparation

Product Name **JAX TEF-STE (AEROSOL)**

Revision Date **12/5/2008**

Supersedes Date **12/4/2008**

Supplier **PRESSURE-LUBE, INC.
W134 N5373 CAMPBELL DRIVE
MENOMONEE FALLS, WI 53051 USA**

Product No. **JAX145**

Material Use Lubricant

Non-Emergency Contact Phone: 1-800-782-8850 (North America) +01-262-781-8850 (International)

Fax: 1-262-781-3906 (North America) +01-262-781-3906 (International)

In Case of Emergency CHEMTREC: 1-800-424-9300 (North America) +01-703-527-3887 Collect (International)

Section 2. Composition / Information on Ingredients

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Components listed below either meet the reporting requirements as specified in U.S. 29 CFR 1910.1200 or EU Directive 1999/45/EC as amended, or are reported for informational purposes only.

Ingredient*	%	PEL/TLV, Source	CAS #	EINECS #	EU Hazard Symbol	R-Phrases**
2-Methylpentane	40-50	400 ppm, OSHA	107-83-5	203-523-4	None	None
Isopropanol	10-20	400 ppm, OSHA	67-63-0	200-661-7	F; Xi	R11-36-67
Propane	20-30	1000 ppm, OSHA	74-98-6	200-827-9	F+	R12
Butane	20-30	800 ppm, OSHA	106-97-8	106-97-8	F+	R12
Polytetrafluoroethylene (PTFE)	1-5	NE	9002-84-0	N/E	None	None

*See Section 11 for LD₅₀ and LC₅₀ of ingredients.

**See Section 16 for full text of R-Phrases.

Section 3. Hazards Identification

Physicochemical Hazards Extremely flammable

Human Health Hazards See Section 11.

Environmental Hazards This preparation is not expected to be dangerous to the environment.

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with large amounts of water for 15 minutes. Make sure to remove contact lenses and lift eyelids to ensure complete flushing. If irritation persists, contact physician immediately.

Skin Contact Thoroughly wash exposed area with soap and water. Remove contaminated clothing and launder it before reuse. Destroy or properly dispose of contaminated shoes. Should any irritation persist, seek medical attention.

Ingestion Ingestion is not likely as an aerosol but, if ingested, DO NOT induce vomiting. If spontaneous vomiting is about to occur, place the victim's head below his knees to prevent aspiration. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Call a physician immediately. Gastric lavage should be considered by medical personnel only following intubation with a cuffed endotracheal tube.

Inhalation If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration (CPR). Call a physician immediately.

Section 5. Firefighting Measures

Flash Point N/A

Autoignition Temperature N/A

Sensitive to Mechanical Impact No

Sensitive to Static Discharge Yes

Lower Flammability Limit N/A

Upper Flammability Limit N/A

Extinguishing Media Extinguishing media include dry chemical, alcohol foam, and carbon dioxide-type extinguishing agents. Do not use direct stream of water. Water may be used to keep fire-exposed containers cool.

Special Hazards Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Ventilate area. Contain spill and dike, if possible. For leaks or spills that have not ignited, water spray can be used to disperse the flammable vapor. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground away from handling site. Eliminate all sources of ignition as vapor may ignite.

Products of Combustion Formaldehyde, toxic gases/vapors created under heat, hydrogen fluoride, carbonyl fluoride, other fluorinated gases, and carbon oxides when burned.

Special Protective Equipment for Firefighters Firefighters should wear full protective clothing, including helmet, and NIOSH-approved self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive-pressure mode.

Section 6. Accidental Release Measures

Personal Precautions	Extinguish all sources of ignition. Provide sufficient ventilation and/or respiratory protection. Wear appropriate protective clothing, gloves, face mask, goggles/glasses to prevent contact with the eyes and skin. See Section 8.
Environmental Precautions	Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.
Methods for Clean-Up	Recover free product using non-sparking tools. Add sand, earth, or other suitable absorbent material to the spill area. Dispose of in accordance with national and/or local regulations relating to waste disposal.

Section 7. Handling and Storage

Handling	Keep away from heat, sparks, open flame or where temperature may exceed 49°C (120°F). Do not throw empty container into fire or trash compactor. Container is not designed to contain pressure; do not use pressure to empty container or it may rupture with explosive force. "Empty" containers retain product residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or grind such containers as they may explode and can cause injury or death. Use only with adequate ventilation. Do not breathe vapor or mist. Do not take internally. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not transfer to nor store in an unmarked container. Read label and MSDS before using. Do not smoke when handling or using this product. Do not use in high-pressure systems in the vicinity of flames, sparks and hot surfaces. Empty container should be promptly returned to a drum reconditioner. For industrial use only.
Storage	Store in tightly sealed containers. Store in a cool, dry place out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or where temperature may exceed 49°C (120°F). Equipment and containers should be bonded and grounded when transferring or using material. Use non-sparking tools and equipment. Rotate stock.

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Limit	See Section 2.
Respiratory Protection	Use with adequate ventilation. Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA-approved air-supplied respirator is advised in absence of proper environmental control.
Ventilation	Use with appropriate local exhaust ventilation. Provide appropriate local exhaust at transfer points. Provide appropriate local exhaust ventilation on open containers. If exhaust ventilation is not adequate, use appropriate respiratory protection.
Protective Gloves	Use any lined non-permeable rubber gloves, such as buna or nitrile.
Eye Protection	Chemical splash goggles or face shield are advised when eye contact may occur.
Personal Hygiene	Wash exposed areas with soap and water when finished using this product. Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash hands before eating or using washroom.
Engineering Controls	Implement engineering controls so that workplace exposure limit(s) of product or any component is not exceeded. Use impervious protective clothing (gloves, boots, apron or full body suit) depending on operation.

Section 9. Physical and Chemical Properties

Appearance/Odor	Colorless liquid with white powder and a fruity odor	Vapor Pressure	40 psig @ 70°F
pH	N/A	Solubility in Water	Insoluble
Boiling Point	N/A	Density	5.59 - 5.84 lbs/gallon
Oxidizing Properties	Not an oxidizer	Viscosity	N/A
Percent Volatile	99	Vapor Density	Heavier than air
Coefficient of Water/Oil Distribution	N/A	Evaporation Rate	Faster than butyl acetate
Partition Coefficient: n-octanol/water	N/A	Physical State	Liquid, powder and compressed gas in aerosol can

Section 10. Stability and Reactivity

Conditions and Materials to Avoid	Avoid heat, sparks, open flames, welding arcs, direct sunlight or other high temperature sources. Avoid oxygen, strong oxidizers, selected amines, strong acids, strong bases, acetaldehyde, chlorine, ethylene oxide, fluorine, chlorine trifluoride, isocyanates. May be corrosive to lead and aluminum. Incompatible with finely divided metal powders.
Hazardous Polymerization	Hazardous polymerization will not occur.
Hazardous Decomposition Products	Formaldehyde, toxic gases/vapors created under heat, hydrogen fluoride, carbonyl fluoride, other fluorinated gases, and carbon oxides when burned.

Section 11. Toxicological Information

Routes of Entry	Skin contact, eye contact, ingestion and inhalation.
Skin	<p>Skin Contact: Skin irritant. Prolonged contact may cause blistering several hours after contact. After prolonged or repeated contact, symptoms can include redness, swelling, blistering, itching and dryness. May be absorbed through the skin in harmful amounts.</p> <p>Skin Absorption: May be absorbed if prolonged and repeated contact occurs.</p>
Eye	Considered an eye irritant. Direct contact with liquid can be highly irritating.
Ingestion	Not likely as an aerosol but, if swallowed, may be harmful or fatal. ASPIRATION HAZARD. May cause nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity.
Inhalation	May be harmful or fatal if swallowed. Overexposure may cause dizziness, headache, excitation, drowsiness, loss of coordination, loss of sensation, loss of consciousness and possibly death. Inhalation may worsen conditions such as emphysema or bronchitis. Exposure to the heating of PTFE above 572°F (300°C) may cause pulmonary inflammation, hemorrhage or edema. These extreme conditions may produce toxic gases in confined spaces. Compared to nonsmokers, smokers may be at a greater risk of polymer fume fever.

Acute Toxicity / LD₅₀ and LC₅₀ of Ingredients

Ingredient	LD ₅₀	LC ₅₀
2-Methylpentane	N/A	N/A
Isopropanol	Oral/Rat: 5045 mg/kg	Inhalation/Rat: 16000 ppm/8h
Propane	Oral = 1000 mg/kg	Inhalation/Rat = 361 g/m ³
Butane	N/A	Inhalation/Rat = 658 g/m ³ /4h
Polytetrafluoroethylene (PTFE)	N/A	N/A

Chronic Toxicity / Carcinogenicity

Ingredient	CAS #	NTP Known Carcinogen	NTP Anticipated Carcinogen	IARC Group
2-Methylpentane	107-83-5	No	No	No
Isopropanol	67-63-0	No	No	No
Propane	74-98-6	No	No	No
Butane	106-97-8	No	No	No
Polytetrafluoroethylene (PTFE)	9002-84-0	No	No	No

Section 12. Ecological Information

Ecotoxicity	N/A	Bioaccumulative Potential	N/A
Mobility	N/A	Persistence and Degradability	N/A

Section 13. Disposal Considerations

Waste Disposal	Consult national or regional authorities for proper disposal and reporting procedures. All disposals must comply with national and regional regulations.
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Section 14. Transportation Information

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

U.S. D.O.T.

Proper Shipping Name:	Aerosols, flammable, n.o.s.
UN/NA Number:	UN1950
Hazard Class:	2.1
Packing Group:	None
Remarks	None

Land Transport ADR/RID

Proper Shipping Name	Aerosols, flammable, n.o.s.
UN/NA Number	UN1950
Hazard Class	2.1
Packing Group	None

Maritime Transport IMDG

Proper Shipping Name	
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IM Number	N/A
IMDG Code	N/A
Packing Group	N/A

Air Transport IATA

Proper Shipping Name	N/A
UN Number	N/A
Hazard Class	N/A
Packing Group	N/A
Remarks	N/A

Section 15. Regulatory Information**U.S. Federal Regulations**

CERCLA	Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is regulated by 40 CFR 302.4 : None
SARA (Section 313)	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: None
SARA Extremely Hazardous List	This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List: None
TSCA Inventory	All components of this material are on the U.S. TSCA Inventory.

State Regulations

California Prop. 65	This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: None
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European Community Regulations

The content and format of this Material Safety Data Sheet are in accordance with Commission Directive 2001/58/EC, amending for the second time Commission Directive 91/155/EEC.

European Community Label Requirements

Danger Symbol(s)	F+
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S-Phrase(s)	S23: Do not breathe gas/fumes/vapor/spray S51: Use only in well-ventilated areas
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R-Phrase(s)	R12: Extremely flammable
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Canada	This product has been classified in accordance with the hazard criteria of the <i>Controlled Products Regulations (CPR)</i> and the MSDS contains all of the information required by the <i>CPR</i> .
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Section 16. Other Information

Component R-Phrase(s)	R11: Highly flammable R12: Extremely flammable R36: Irritating to eyes R67: Vapors may cause drowsiness and dizziness
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HMIS® Ratings	Health: 1 Fire: 3 Physical Hazard: 0
	HMIS® Ratings: 0 = Minimal Hazard; 1 = Slight Hazard; 2 = Moderate Hazard; 3 = Serious Hazard; 4 = Severe Hazard

Abbreviations that May Be Used in this Document	N/A = Not available N/E = Not established
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Sections Revised	None
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Revision Date	12/5/2008
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The information and recommendations contained herein are, to the best of Pressure-Lube, Inc.'s knowledge and belief, accurate and reliable as of the date issued. Pressure-Lube, Inc. makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and Pressure-Lube, Inc. shall not be liable for any loss or damage based up on the criteria supplied by the developers of these rating systems, together with Pressure-Lube, Inc.'s interpretation of the

available data.

*** END OF MSDS ***



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