



Pressure-Lube, Inc.

Material Safety Data Sheet

Approval Date 1/18/2011
Supersedes Date 8/13/2009

Section I. Chemical Product and Company Identification			
Product Name/ Trade Name	JAX NON-CHLORINATED BRAKE PARTS CLEANER (AEROSOL)		Product ID No. JAX229
Supplier	PRESSURE-LUBE, INC. W134 N5373 CAMPBELL DRIVE MENOMONEE FALLS, WI 53051 USA		Emergency Telephone For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident, Call CHEMTREC: NORTH AMERICA 800-424-9300 INTERNATIONAL +01-703-527-3887 Collect
Synonym(s)	None		Non-Emergency Contact JAX: 262-781-7660 JAX/FAX: 262-781-3906
Chemical Family	Mixture		
Chemical Formula	Not applicable		
Material Uses	Brake parts cleaner		

Section II. Composition and Information on Ingredients				
Name	PEL/TLV, Source	CAS #	% by Weight	
PROPRIETARY FORMULA.				
Heptane	400 ppm, OSHA	142-82-5	5-15	
2-Propanone	750 ppm, OSHA	67-64-1	60-80	
Toluene	200 ppm, OSHA	108-88-3	5-15	
Carbon dioxide	5000 ppm, OSHA	124-38-9	5-15	
Methanol	200 ppm, OSHA	67-56-1	1-5	
LC ₅₀ , LD ₅₀ of Ingredients	Not available			

Section III. Hazards Identification	
Emergency Overview	Potential health risks vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
Potential Health Effects:	
Eye Contact	Moderate eye irritation. Symptoms can include redness, swelling, pain, tearing and hazy vision.
Skin Contact	SKIN CONTACT: After prolonged or repeated contact, symptoms can include redness, swelling, blistering, itching and dryness. May be absorbed through the skin in harmful amounts if prolonged and repeated contact occurs. SKIN ABSORPTION: May be absorbed if prolonged and repeated contact occurs. Exposure may aggravate existing eye, skin, kidney and liver disorders.
Ingestion	Not likely as an aerosol but, if swallowed, can be harmful or fatal. ASPIRATION HAZARD. Can cause irritation of gastrointestinal tissues (pain, vomiting, abdominal tenderness, nausea, blood in vomitus, blood in feces), blood disorders (general feeling of unhealthiness, weakness, fatigue), heart effects (can include arrhythmia, heart attack and death), kidney damage (reduced urine volume, loss of appetite, weight gain, red urine, back pain, painful urination, lethargy), central nervous systems effects (emotional changes, lack of coordination, delirium, tremors, sensory loss, coma), aspiration pneumonitis (coughing, difficulty breathing, wheezing, pneumonia, coughing up blood), and liver damage (yellow skin, tenderness of abdomen, abdominal distension, lethargy, fever, and death). Contains methanol which cannot be made non-poisonous. Deaths are reported from as little as 30 ml of methanol; can cause blindness that could be permanent.
Inhalation	May be harmful or fatal if inhaled. Can cause blood disorders (general feeling of unhealthiness, weakness, fatigue), clotting disorders (bruising easily, increased blood clotting time), gastrointestinal disturbance (nausea, vomiting, diarrhea), cardiac sensitization (sudden heart stoppage due to a reflex effect on the nerves which control the heart; this usually occurs only after inhalation of concentrated vapors such as intentional abusive sniffing of certain solvents and propellants), heart effects (including arrhythmia, heart attack and death), nervous system effects (including emotional changes, lack of coordination, delirium, tremors, sensory loss, and coma), peripheral neuropathy (tingling of extremities, incoordination, sensory losses, weakness, tremors, and emotional changes), chemical pneumonitis (inhalation of liquid or vapors can result in symptoms of coughing, difficulty breathing, wheezing, pneumonia, and coughing up blood), respiratory system irritation (coughing, congestion, irritation of throat, tightness of chest, wheezing and difficulty breathing), lung damage (coughing, difficulty breathing, wheezing, tightness in chest, congestion and coughing up blood) and pulmonary edema (symptoms can include coughing, difficulty breathing, fluid in lungs, unconsciousness, and even death).

Continued on Next Page

Section III. Hazards Identification (cont'd)

HMIS Code	Health: 2	Fire: 4	Physical Hazard: 0	HAZARD RATINGS	
				0 Minimal Hazard 1 Slight Hazard 2 Moderate Hazard	3 Serious Hazard 4 Severe Hazard

Section IV. First Aid Measures

Eye Contact	Immediately flush eyes with large amounts of water. If irritation or other symptoms persist, call a physician.
Skin Contact	Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation is severe, call a physician immediately. Wash clothing before reuse. Destroy or properly dispose of contaminated shoes.
Ingestion	Ingestion is not likely as an aerosol but, if ingested, DO NOT induce vomiting. Give one to two glasses of water. Never give anything by mouth to an unconscious person. Call a physician immediately. Gastric lavage should be only considered by medical personnel following intubation with a cuffed endotracheal tube.
Inhalation	Move person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Call a physician immediately.

Section V. Fire and Explosion Data

Autoignition Temperature	Not available		
Flash Point	<0°F (-18°C), ASTM D 92		
Flammable Limits (Approx.)	LOWER Flammable Limit: 1.0%	UPPER Flammable Limit: 12.8%	
Explosion Hazards	See Lower and Upper Flammable Limits		
Products of Combustion	Carbon oxides can form on incomplete combustion.		
Firefighting Media and Instructions	Dry chemical, alcohol foam, and carbon dioxide type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on the size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists. The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's Fire Protection Guide on Hazardous Materials. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away from explosives. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.		
Special Remarks - Fire and Explosion Hazards	Wear self-contained breathing apparatus when fighting fires containing or around this product. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective gear, including helmet. 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. Do not use direct stream of water because product will float and can be reignited on surface of water. Firefighters should wear SCBA's in positive pressure mode with full face shield. 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. Carbon oxides may be formed.		

Section VI. Accidental Release Measures

Release or Spill	Ventilate area, especially low places where vapors may collect. Extinguish all ignition sources. Contain spill; cover with inorganic absorbent material. Collect spilled material; place in a DOT-approved container for disposal. Clean up residue. Refer to other sections of MSDS for information regarding hazards, ventilation, and personal protective equipment.
Environmental Impact	Report spills as required to the appropriate authorities. U.S. Coast Guard Regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to the Coast Guard toll-free number 800-424-8802.

Section VII. Handling and Storage

Handling	Keep away from heat, sparks and open flame. Do not throw empty container into fire or trash compactor. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Do not breathe vapor or mist. Do not transfer to nor store in an unmarked container. Read label before using. Do not smoke when handling or using this product. Do not cut on empty containers as they may contain vapors that are flammable. Use with adequate ventilation. Do not take internally. Keep out of reach of children.
Storage	Store in tightly sealed containers. Do not store in direct sunlight. Keep away from heat, sparks and open flame. Store containers below 120°F (49°C). Do not throw empty container into fire or trash compactor. Do not double stack. Rotate stock.

Continued on Next Page

Section VIII. Exposure Controls and Personal Protection

Respiratory Protection	Use NIOSH-approved respirator based on airborne concentration of contaminants in accordance with OSHA regulations.
Ventilation	Use with appropriate local exhaust ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection.
Protective Gloves	Use chemical-resistant gloves, if needed to avoid prolonged or repeated skin contact.
Eye Protection	Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.
Personal Hygiene	Wear non-permeable clothing to protect skin from liquid contact. Do not eat or drink or wear facial cream when using this product. Do not swallow. Wash exposed areas thoroughly with soap and water.
Engineering Controls	Implement engineering controls so that workplace exposure limit(s) of product or any component is not exceeded.
Exposure Limit	See Section II for ingredient exposure limits.

Section IX. Physical and Chemical Properties

Appearance/Odor	Colorless liquid with aromatic/ketone-like odor	Vapor Pressure	110 psig @ 70°F (21°C)
Odor Threshold	Not available	Vapor Density	Heavier than air
Specific Gravity	0.73 - 0.75 concentrate	Percent Volatile	20%
Density	6.07 - 6.27 lbs/gal	Evaporation Rate	Faster than butyl acetate
pH	Not available	Solubility in Water	Approximately 50%
Boiling Point	Not available	Coefficient of Water/Oil Distribution	Not available
Freezing/Melting Point	Not available	Physical State	Liquid and compressed gas in aerosol can

Section X. Stability and Reactivity Data

Stability	Stable under normal temperatures and pressures.
Conditions of Reactivity	Not available
Conditions and Materials to Avoid	Avoid sparks and other sources of ignition, open flames, high temperatures [above 120°F (49°C)], and direct sunlight. Avoid contact with strong oxidizers (such as liquid chlorine, halogens, hydrogen peroxide, and oxygen), selected amines, strong acids (such as nitric acid and sulphuric acid), strong bases and molten sulphur.
Hazardous Polymerization	Hazardous polymerization will not occur.
Hazardous Decomposition Products	Carbon oxides can form on incomplete combustion.

Section XI. Toxicological Information

Routes of Entry	Dermal contact, eye contact, inhalation, ingestion.	Ingestion	Not available
Toxicity to Animals	Not available	Inhalation	Not available
Effects of Acute Exposure	Not available	Toxically Synergistic Products	Not available
Acute Effects of Sensitization	Not available		
Chronic Effects on Humans:			
Carcinogenic Effects	NTP: This product contains no known or anticipated carcinogens as listed by NTP. IARC: Category 3 (Toluene)		
Mutagenic Effects	No data available to indicate any components present at greater than or equal to 0.1% may present a mutagenic hazard.		

Continued on Next Page

Section XI. Toxicological Information (cont'd)

Teratogenic Effects	No data available to indicate any components present at greater than 0.1% may present a teratogenic hazard.
Reproductive Effects	Toluene (CAS# = 108-88-3) is being investigated as a reproductive effector.

Section XII. Ecological Information

Ecotoxicity	There is no data available on the adverse effects of this material on the environment.
--------------------	--

Section XIII. Disposal Considerations

Waste Disposal	Consult federal, state or local authorities for proper disposal and reporting procedures. All disposals must comply with federal, state and local regulations.
-----------------------	--

Section XIV. Transportation Information

I.A.T.A. Air Transportation:		U.S. D.O.T. Ground Transportation:	
Shipping Name	Aerosols, flammable	Shipping Name	Consumer Commodity
Hazard Class	2.1	Hazard Class	ORM-D
UN Number	UN1950	UN Number	None
Packing Group	None	Packing Group	None
Hazard Label	Flammable gas	Remarks	The above U.S. DOT information applies to GROUND shipments only. Refer to Code of Federal Regulations, Title 49 (49 CFR) for additional shipping information.

Section XV. 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 : Toluene (CAS# = 108-88-3), RQ = 1000 lbs. 2-Propanone (CAS# = 67-64-1), RQ = 5000 lbs. Methanol (CAS# = 67-56-1), RQ = 5000 lbs.
SARA (Section 313)	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: Toluene CAS# = 108-88-3 Methanol CAS# = 67-56-1
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.
California Prop. 65	WARNING! This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: Toluene CAS# = 108-88-3

International Regulations:

Canada	All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and this MSDS contains all the information required by CPR.
Japan MITI	Not available
Australia	Not available
Switzerland	Not available

Section XVI. Other Information

Approval Date	1/18/2011
Supersedes Date	8/13/2009
Prepared by	Technical Services 262-781-7660
Sections Revised Since Last Version	Section XIV

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 upon the criteria supplied by the developers of these rating systems, together with Pressure-Lube Inc.'s interpretation of the available data.