



JAX INC.

Approval Date 2/9/2009
 Supersedes Date 1/31/2007

Material Safety Data Sheet

Section I. Chemical Product and Company Identification			
Product Name/ Trade Name	JAX AIR LINE / GAS LINE ANTI-FREEZE		Product ID No. 92000
Supplier	JAX INC. W134 N5373 CAMPBELL DRIVE MENOMONEE FALLS, WI 53051 USA		Emergency Contact 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		
Chemical Name	Alcohol		Non-Emergency Contact JAX: 262-781-8850 JAX/FAX: 262-781-3906
Chemical Family	Alcohol		
Chemical Formula	Mixture		
Material Uses	Air line / gas line anti-freeze		

Section II. Composition and Information on Ingredients				
Name	PEL/TLV, Source	CAS #	% by Weight	
PROPRIETARY FORMULA.				
Isopropanol	400 ppm, OSHA PEL	67-63-0	40-60%	
Methanol (methyl alcohol)	200 ppm, OSHA PEL	67-56-1	40-60%	
LC ₅₀ , LD ₅₀ of Ingredients	Not available			

Section III. Hazards Identification	
Emergency Overview	POISON! DANGER! Harmful vapor. Flammable liquid and vapor. May be fatal or cause blindness if swallowed. Harmful if inhaled or absorbed through skin. Cannot be made nonpoisonous. Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of this material. Affects central nervous system and liver.
Potential Health Effects:	
Eye Contact	Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage. Continued exposure may cause eye lesions.
Skin Contact	Skin contact may cause defatting, and may cause skin to become dry and cracked. Skin absorption can occur; symptoms parallel inhalation exposure.
Ingestion	Toxic. Symptoms parallel inhalation. Can intoxicate and cause blindness. Single lethal dose for a human adult is 100 milliliters.
Inhalation	A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse again up to 30 hours later.

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Section III. Hazards Identification (cont'd)

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

Section IV. First Aid Measures

Eye Contact	Remove contact lenses, if wearing. Flush eyes with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Skin Contact	Remove clothing and shoes, if contaminated. Wash skin with soap and water. Wash or clean contaminated clothing before reuse and discard oil-soaked shoes. If irritation persists, consult a physician.
Ingestion	Induce vomiting immediately as directed by medical personnel. Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Section V. Fire and Explosion Data

Autoignition Temperature	Not available	Sensitivity to Impact	Not available
Flash Point	53°F (12°C), TCC	Sensitivity to Static Discharge	Not available
Flammable Limits (Approx.)	LOWER Flammable Limit: 2.0	UPPER Flammable Limit:	36.0
Explosion Hazards	See Lower and Upper Flammable Limits		
Products of Combustion	Carbon monoxide, carbon dioxide, and formaldehyde when heated to decomposition.		
Firefighting Media and Instructions	Use alcohol foam, dry chemical or carbon dioxide as extinguishing media (water may be ineffective). Water spray may be used to keep fire-exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leaks and disperse vapors. Firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.		
Special Remarks - Fire and Explosion Hazards	Vapors form from this product and may settle in low places, travel along the ground or move by air currents to distant ignition source and flash back. Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks or flames. Sensitive to static discharge. Contact with strong oxidizers may cause fire or explosion.		

Section VI. Accidental Release Measures

Release or Spill	Recover free product using non-sparking tools and equipment. Add sand, earth, or other suitable absorbent material to the spill area. Minimize breathing vapors. Minimize skin contact. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if the product has entered or may enter sewers, watercourse, or extensive land areas.
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	DANGER! May be fatal if swallowed. Cannot be made nonpoisonous. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Avoid contact with eyes. Contact lenses should not be worn. Do not ingest. May cause blindness if swallowed. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Equipment and containers should be bonded and grounded when transferring or using material. For industrial use only. Use explosion-proof ventilation. Do not smoke when handling this product. Use non-sparking tools and equipment.
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Section VII. Handling and Storage (cont'd)

Storage Protect against physical damage. Store in cool, dry, well-ventilated area, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Store in a "no smoking" area. "Empty" containers may be hazardous since they retain residues of vapors and liquids; observe all warnings listed for the product. Small quantities of peroxides can form on prolonged storage. Exposure to light and/or air significantly increases the rate of peroxide formation. If evaporated to a residue, the mixture of the residue and peroxides may explode when exposed to heat or shock.

Section VIII. Exposure Controls and Personal Protection

Respiratory Protection Wear a supplied-air, full-facepiece respirator, airlined hood, or full-facepiece self-contained breathing apparatus if exposure limit may be exceeded and engineering controls are not feasible. Breathing air quality must meet the requirements of OSHA respiratory protection standard (29CFR1910.134). **WARNING:** Air purifiers do not protect workers in oxygen-deficient environments. This product has poor warning properties.

Ventilation A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust ventilation is preferred as it can control the emissions of the contaminant at its source. Use explosion-proof equipment.

Protective Gloves Wear neoprene or nitrile rubber gloves.

Eye Protection Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.

Personal Hygiene Wear imperious boots, apron or coveralls as needed to prevent repeated or prolonged contact.

Engineering Controls Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below limits (see Section II).

Exposure Limit 5 mg/m³ (oil mist)

Section IX. Physical and Chemical Properties

Appearance/Odor	Water white fluid with typical alcohol odor	Vapor Pressure	Not available
		Vapor Density	Heavier than air
Odor Threshold	Not available	Percent Volatile	100%
Specific Gravity	0.7896	Evaporation Rate	Slower than ether
Density	6.60 lbs./gallon	Viscosity	Not available
Molecular Weight	Not available	Solubility in Water	Miscible in water
pH	Not available	Coefficient of Water/Oil Distribution	Not available
Boiling Point	148-180°F	Physical State	Liquid
Freezing/Melting Point	Not available		

Section X. Stability and Reactivity Data

Stability Stable under normal temperatures and pressures. **Conditions of Reactivity** Not available

Conditions of Instability Not available

Conditions and Materials to Avoid Avoid heat, flames, and ignition sources. Avoid strong oxidizers, nitric acid, sulfuric acid, aldehydes, ethylene chloride, hydrogen-palladium combination, hydrogen peroxide-sulfuric acid combination, potassium tert-butoxide, hypochlorous acid, isocyanates, nitroform, phosgene, aluminum, oleum, perchloric acid, halogens, halogen compounds, nitrates, and perchlorates. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas.

Hazardous Polymerization Hazardous polymerization will not occur.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide, and formaldehyde when heated to decomposition.

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	Investigated as a tumorigen.		
Mutagenic Effects	Investigated as a mutagen.		

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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	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.
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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.
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Section XIV. Transportation Information

U.S. D.O.T.			
Shipping Name:	Flammable liquids, N.O.S., RQ (Methanol, Isopropanol)	UN Number:	UN1993
Hazard Class:	Class 3	Packing Group:	PG II
Remarks	None		

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 : 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: Methanol, CAS #67-56-1, present at 40-45%
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	This product contains the following chemical(s) known to the State of California to cause birth defects or other reproductive harm: None

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

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Prepared by	Technical Services 262-781-8850
Sections Revised Since Last Version	Section I

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