



Material Safety Data Sheet

A. GENERAL INFORMATION

TRADE NAME (COMMON NAME): PROPELLANT 49 DE-ICER		CAS NUMBER: 10043-52-4 (anhydrous)	
		MOLECULAR WEIGHT: 110.99	
PACE PRODUCTS, INC 4510 W89 TH ST PRAIRIE VILLAGE KS 66207			
CONTACT: PACE PRODUCTS, INC	PHONE NUMBER: 913-469-5588	LAST ISSUE DATE: October, 2003	CURRENT ISSUE DATE: OCTOBER, 2008

B. FIRST AID MEASURES

		EMERGENCY PHONE NUMBER: 888-389-8203
EYES:	Flush promptly with plenty of water, continuing for at least 15 minutes. Get medical attention.	
SKIN:	Wash with plenty of water.	
INHALATION:	Remove to fresh air.	
INGESTION:	If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat. Get medical attention for irritation, ingestion, or discomfort from inhalation.	

C. HAZARDS INFORMATION

INHALATION: Vapors are unlikely due to physical properties. Mists may cause irritation to the upper respiratory tract.	
INGESTION: Single dose, oral toxicity is believed to be low. Ingestion may cause gastrointestinal irritation and ulceration.	
SKIN: Short, single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined to skin or skin is abraded. A single, prolonged exposure is not likely to result in material being absorbed through the skin in harmful amounts.	
EYES: May cause moderate to severe eye irritation with corneal injury, which may be slow to heal.	
PERMISSIBLE CONCENTRATION: AIR (SEE SECTION J) 10 mg/m ³ – nuisance dust	BIOLOGICAL None
UNUSUAL CHRONIC TOXICITY: None.	

C. HAZARDS (Cont.)

FLASH POINT: Not flammable OPEN CUP <input type="checkbox"/> CLOSED CUP <input type="checkbox"/>	AUTO IGNITION TEMPERATURE NA	FLAMMABLE LIMITS IN AIR (% BY VOL.) LOWER - NA UPPER - NA
UNUSUAL FIRE AND EXPLOSION HAZARDS See hazard of contact with zinc as in galvanized iron: Section G.		

D. PRECAUTIONS/PROCEDURES

FIRE EXTINGUISHING AGENTS RECOMMENDED: NA	
FIRE EXTINGUISHING AGENTS TO AVOID: NA	
SPECIAL FIREFIGHTING PRECAUTIONS: Use positive pressure, self-contained breathing apparatus.	
VENTILATION: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.	
NORMAL HANDLING: Avoid contact with eyes, skin or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping.	
STORAGE: Store in a cool, dry area. Prolonged storage may cause product to cake and become wet from atmospheric moisture.	
SPILL OR LEAK (ALWAYS WEAR PERSONAL PROTECTIVE EQUIPMENT – SECTION E) Shovel up dry chemical and place in metal drum with a cover. Cautiously spray residue with plenty of water.	
SPECIAL: PRECAUTIONS/PROCEDURES/LABEL INSTRUCTIONS:	SIGNAL WORD WARNING!

E. PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: For dusty or misty condition, wear NIOSH-approved air-purifying respirator.
EYES AND FACE: Safety goggles. Face shield and chemical goggles for extensive exposure. Under these conditions, do not wear contact lenses.
HANDS, ARMS, AND BODY: As a minimum, wear long-sleeve shirt and trousers or coveralls, boots, and gloves for routine product use. Cotton gloves permitted for dry product, impervious gloves when using solutions.
OTHER CLOTHING AND EQUIPMENT: Eye-wash facility.

F. PHYSICAL DATA

MATERIAL IS AT NORMAL CONDITIONS: LIQUID <input type="checkbox"/> SOLID <input checked="" type="checkbox"/> GAS <input type="checkbox"/> <input type="checkbox"/> _____		APPEARANCE AND COLOR: White to off white solid pellets; odorless.	
BOILING POINT: Unknown °C MELTING POINT: 772 °C	SPECIFIC GRAVITY: (H ₂ O = 1) 2.26 g/cc @ 20° C	VAPOR DENSITY: (AIR = 1) NA: water vapor only.	
SOLUBILITY IN WATER: (% BY WEIGHT) Very soluble	pH: Neutral or slightly alkaline	VAPOR PRESSURE: (mm Hg @ 20°C) <input type="checkbox"/> (PSIG) <input type="checkbox"/> NA	
EVAPORATION RATE: (Butyl acetate=1) <input type="checkbox"/> (Ether = 1.0) <input type="checkbox"/> NA	% VOLATILES BY VOLUME: (AT 20°C) NA		

G. REACTIVITY DATA

STABILITY: UNSTABLE <input type="checkbox"/> STABLE <input checked="" type="checkbox"/>	CONDITIONS TO AVOID: NA
INCOMPATIBILITY (MATERIALS TO AVOID): Sulfuric acid: yields hydrogen chloride gas, which is corrosive, irritating, and reactive. Water-reactive materials, such as sodium: cause an exothermic reaction. Methyl vinyl ether: starts runaway polymerization reaction. Zinc as in galvanized iron: yields hydrogen gas with solutions, which may explode under these conditions.	
HAZARDOUS DECOMPOSITION PRODUCTS: Fumes of chloride (Cl ⁻) are given off at temperatures above 1600 °C.	
HAZARDOUS POLYMERIZATION: MAY OCCUR <input type="checkbox"/> WILL NOT OCCUR <input checked="" type="checkbox"/>	CONDITIONS TO AVOID: NA

H. HAZARDOUS INGREDIENTS (MIXTURES ONLY)

MATERIAL OR COMPONENT/C.A.S. #	WT. %	HAZARD DATA (See Sect. J)
PROPRIETARY INFORMATION		

I. ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY: Aquatic Toxicity: TLm96: over 1000 ppm		OCTANOL/WATER PARTITION COEFFICIENT NA
EPA HAZARDOUS SUBSTANCE? (CLEAN WATER ACT SECT. 311) YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> IF SO, REPORTABLE QUANTITY:		40 CFR 116-117
WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS): Treatment or disposal of waste generated by use of this product should be reviewed in terms of applicable federal, state and local laws and regulations. Users are advised to consult with appropriate regulatory agencies before discharge, treatment or disposal.		
RCRA STATUS OF <u>UNUSED</u> MATERIAL IF DISCARDED: Not a "hazardous waste".	HAZARDOUS WASTE NUMBER: (IF APPLICABLE) --	40 CFR 261

J. REFERENCES

PERMISSIBLE CONCENTRATIONS REFERENCES: None.		
REGULATORY STANDARDS None.	DOT CLASSIFICATION: Not regulated	49 CFR 173
GENERAL:		

K. ADDITIONAL INFORMATION

HMIS: 1-0-1

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