

MATERIAL SAFETY DATA SHEET



Date Prepared: 10/07/2005

MSDS No: NPAC

N-PROPYL ACETATE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: N-PROPYL ACETATE

PRODUCT CODE: NPAC

ALTERNATE TRADE NAME(S): acetic acid, propyl ester

MANUFACTURER

Distributed by Tarr, LLC

P.O. Box 12570

Portland, OR 97212

Customer Service: 503-288-5294

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) :(800) 424 - 9300

CANUTEC (Canadian Transportation) :(613) 996 - 6666

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS</u>
n-Propyl acetate	100	109-60-4

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
n-Propyl acetate	TWA	200	200			

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING! Flammable liquid and vapor. Vapor harmful. Keep away from heat, sparks and open flame.

Avoid prolonged breathing of vapor. Use with adequate ventilation. Keep container closed. Prolonged or repeated skin contact may cause defatting or drying of the skin. Repeated overexposure may cause liver damage.

POTENTIAL HEALTH EFFECTS

EYES: Liquid and vapor may cause irritation. Symptoms include excess redness, and swelling of the conjunctiva.

SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Moderately toxic. May cause abdominal discomfort, nausea, vomiting, and diarrhea. Dizziness and drowsiness may occur.

INHALATION: Vapors may be irritating to the respiratory tract, experienced as nasal discomfort and discharge with chest pain and coughing. High vapor concentrations may cause narcosis (sleepiness, drowsiness, etc.) May aggravate asthma and inflammatory or fibrotic pulmonary disease. Repeated overexposure may cause liver damage.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

SKIN: Prolonged or repeated skin contact may cause drying, cracking, or irritation. May aggravate existing dermatitis.

MEDICAL CONDITIONS AGGRAVATED: Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product.

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

SKIN: Remove contaminated clothing/shoes. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

INGESTION: Do not give liquids if victim is unconscious or drowsy. Otherwise, give 2 glasses of water and induce vomiting. Keep victim's head below hips while vomiting. Call doctor.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

ADDITIONAL INFORMATION: None identified.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 13°C (55°F)

FLAMMABLE LIMITS: 0 to 0

AUTOIGNITION TEMPERATURE: No data available.

EXTINGUISHING MEDIA: Use water fog, "alcohol" foam, dry chemical, or CO₂.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, isobutylene and unidentified organic compounds may be formed during thermal decomposition.

FIRE FIGHTING PROCEDURES: WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Fire fighters should wear self contained breathing apparatus. Vapors may travel considerable distance to a source of ignition and flash back. Water spray may be ineffective in fighting fire. Water spray may be used to cool closed containers to prevent pressure build-up and possible rupture of containers. Keep away from heat, sparks and flame. Keep containers closed. Use with adequate ventilation.

FIRE FIGHTING EQUIPMENT: Do not enter fire area without proper protection. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

HAZARDOUS DECOMPOSITION PRODUCTS: Store away from heat, sparks, and open flame. Keep containers tightly closed when not in use. Do not weld, cut, grind, solder, or drill on or near empty containers. Empty containers may contain explosive concentrations of product vapors.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

7. HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling. Use with adequate ventilation. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

STORAGE: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

COMMENTS: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be needed to control airborne levels below recommended exposure limits.

PERSONAL PROTECTION

EYES AND FACE: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

SKIN: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

RESPIRATORY: If exposure may or does exceed occupational exposure limits (Sec. 2) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING: Where splashing is possible, wear impervious clothing and boots.

WORK HYGIENIC PRACTICES: Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Sweet odor.

APPEARANCE: Clear, water-white liquid.

pH: Essentially neutral.

PERCENT VOLATILE: 100

VAPOR PRESSURE: 23 mmHg at 20°C

VAPOR DENSITY: Heavier than air.

BOILING POINT: 101.5°C

FREEZING POINT: -95°C

MELTING POINT: (-80°F)

SOLUBILITY IN WATER: 2.0% (20C) in water.

EVAPORATION RATE: 2.75 (n-Butyl Acetate=1)

DENSITY: 7.37

SPECIFIC GRAVITY: 0.89

10. STABILITY AND REACTIVITY

STABLE: YES

CONDITIONS TO AVOID: Avoid heat, sparks, flame and contact with strong oxidizing agents.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, nitric acid, sodium hydroxide, alkali metal hydroxides.

11. TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: None identified.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice

must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

RCRA/EPA WASTE INFORMATION: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR.

Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: n-Propyl Acetate

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN 1276

PACKING GROUP: II

LABEL: Flammable liquid

NAERG: 129

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: YES **PRESSURE GENERATING:** NO **REACTIVITY:** NO **ACUTE:** YES **CHRONIC:** YES

311/312 HAZARD CATEGORIES: This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

313 REPORTABLE INGREDIENTS: To the best of our knowledge, this product is not listed as a toxic chemical.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: To the best of our knowledge, this product is not listed as an extremely hazardous substance.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

16. OTHER INFORMATION

REASON FOR ISSUE: Updated to new MSDS format.

APPROVAL DATE: 10/14/2005

PREPARED BY: P. Rodabaugh

REVISION SUMMARY New MSDS

HMIS CODES

FLAMMABILITY: 3 **HEALTH:** 2 **PHYSICAL HAZARD:** 0 **PERSONAL PROTECTION:** H

ADDITIONAL MSDS INFORMATION: Last revision 7/31/2003.

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