



Product name: n-Propyl acetate
MSDS number: 82
Material number: 80082
Published date: 02/16/2007

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product: n-Propyl acetate
MSDS number: 82
Material number: 80082

Distributed By:
SAL Chemical
3036 Birch Drive
Weirton, WV 26062
304-748-8200

2. Manufacturer, Importer, Supplier

OXEA Corporation
1603 West LBJ Freeway
Dallas, TX 75234

3. Transportation emergency phone numbers

In USA, call 800 424 9300
Outside USA, call 703 527 3887, collect calls accepted

4. Product Information

Product Stewardship
FAX: +49 (0)208 693 2053
email: psq@oxea-chemicals.com

Product Use: Solvent for inks & printing, paints & coatings, process solvent; nonsolvent uses.

5. Composition / Information on Ingredients

Component	CAS Number	Percent %	OSHA hazard category:
PROPYL ACETATE	109-60-4	99.5	Hazardous

6. Hazards Identification

Transportation emergency: 800 424 9300 CHEMTREC, 24 hrs/day
703 527 3887 Outside USA, collect calls accepted, 24 hrs/day



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~~Hazards Identification~~

Emergency Overview:

WARNING!

- Flammable liquid and vapor.
- May cause respiratory tract, skin and eye irritation.
- Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback.

Product Description

Appearance: Clear, colorless mobile liquid.
Odor: Strong, fruity odor

Potential health effects

Routes of exposure: Skin, eyes, inhalation, ingestion.

Immediate effects:

Skin: May cause skin irritation. Symptoms of exposure may include: Drying, cracking or inflammation of skin.

Eyes: Exposure to vapors and liquid May cause eye irritation. Symptoms of exposure may include: Eye irritation, burning sensation, pain, watering, and/or change of vision.

Inhalation: May cause respiratory tract irritation. Symptoms of exposure may include: Nasal discharge, hoarseness, coughing, chest pain and breathing difficulty. Nausea, headache and/or dizziness.

Ingestion: Essentially non-toxic. Symptoms of exposure may include: Central nervous system depression with nausea, headache and mental sluggishness.

Mutagenic: Does not show mutagenic potential in Ames test.

Target organ effects:
•Overexposure (prolonged or repeated exposure) may cause:
Central nervous system depression
Irritation of the respiratory tract
Drying of the skin
Local irritation at the site of exposure

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Medical conditions which may be aggravated by exposure: Significant exposure to this chemical may adversely affect people with acute or chronic disease of the:
Respiratory Tract
Skin
Eyes
Central nervous system

For further information, see: Section 4 - First Aid Measures
Section 5 - Fire Fighting Measures
Section 6 - Accidental Release Measures
Section 8 - Exposure Controls/Personal Protection
Section 9 - Physical and Chemical Properties
Section 10 - Stability and Reactivity

4 - First Aid Measures

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Call a physician if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If large quantities of this material are swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

5 - Fire Fighting Measures

NFPA: Health: 1 Flammability: 3 Reactivity: 0

Flammable properties

Flash point (test method): 12.8 C (55 F)

Flammable limits in air, % by volume:

Upper: 8 %
Lower: 2 %

Autoignition temperature: 450 C (842 F)

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Products of combustion: Carbon Monoxide.

Extinguishing Media: Use CO₂ or dry chemical for small fires. Use aqueous film forming foam for large fires.

Fire Fighting Instructions: Water may be ineffective but should be used to cool fire-exposed structures and vessels. Use water spray for large fires. Keep personnel removed from and upwind of fire. If potential for exposure to vapors or products of combustion exists, wear full fire fighting turnout gear and NIOSH approved self-contained breathing apparatus. Oxidizing chemicals may accelerate the burning rate in a fire situation. Vapor is heavier than air and can travel considerable distance to a source of ignition and flashback.

Fire Fighting Environmental Concerns: Thoroughly decontaminate bunker gear and other fire-fighting equipment before re-use.

Accidental Release Measures

Spill or Leak Instructions

Eliminate ignition sources. See Section 8 for appropriate personal protective equipment. Contain spill with dikes of soil or nonflammable absorbent to minimize contaminated area. If fire potential exists, blanket spill with alcohol type aqueous film-forming foam or use water fog stream to disperse vapors. Avoid run-off into storm sewers and ditches leading to waterways. If required, notify state and local authorities. Place leaking containers in well-ventilated area. Clean up small spills by using a nonflammable absorbent or flushing sparingly with water. Contain larger spills with nonflammable diking or absorbent. Clean up by vacuuming or sweeping.

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Isolate for 800 meters or 0.5 miles in all directions if tank, rail car, or tank truck is involved in fire. Material creates a special hazard because it floats on water. Evacuate downwind areas as conditions warrant to prevent exposure and to allow vapors or fumes to dissipate. Spills may expose downwind areas to toxic or flammable concentrations over considerable distances in some cases.

Handling and Storage

Handling:

Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

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This product may generate a static charge. Ground/bond equipment when transferring material to prevent static accumulation. Electrical equipment and circuits in all storage and handling must conform to requirements of National Electric Code (Article 500 and 501) for hazardous location.

Storage: Keep all containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor.
Do not store with incompatible materials. See Section 10. Stability and Reactivity.

6 Exposure Controls/Personal Protection

Engineering Controls: General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred.

Protective Equipment A safety shower and eyebath should be readily available.

Skin protection: Wear impervious clothing and gloves to prevent contact. Butyl rubber is recommended. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

Eye/face protection: Wear chemical goggles when there is a reasonable chance of eye contact.

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Respiratory protection: Based on workplace contaminant level and working limits of the respirator, use a respirator approved by NIOSH. The following is the minimum recommended equipment for an occupational exposure level. To estimate an occupational exposure level see Section 3, Section 8 and Section 11.

For concentrations > 1 and < 10 times the occupational exposure level: Use air-purifying respirator with full facepiece and organic vapor cartridge(s) or air-purifying full facepiece respirator with an organic vapor canister or a full facepiece powered air-purifying respirator fitted with organic vapor cartridge(s). The air purifying element must have an end of service life indicator, or a documented change out schedule must be established. Otherwise, use supplied air.

For concentrations more than 10 times the occupational exposure level and less than the lower of either 100 times the occupational exposure level or the IDLH: Use Type C full facepiece supplied-air respirator operated in positive-pressure or continuous-flow mode.

For concentrations > 100 times the occupational exposure level or greater than the IDLH level or unknown concentrations (such as in emergencies): Use self-contained breathing apparatus with full facepiece in positive-pressure mode or Type C positive-pressure full facepiece supplied-air respirator with an auxiliary positive-pressure self-contained breathing apparatus escape system.

For escape: Use self-contained breathing apparatus with full facepiece or any respirator specifically approved for escape.

Exposure guidelines

Component	CAS Number	Percent %	ACGIH TWA	ACGIH STEL	ACGIH CEILING	OSHA TWA	OSHA STEL	OSHA CEILING	Mexico TWA	Mexico STEL	Mexico CEILING
PROPYL ACETATE	109-60-4	99.5	200 ppm	250 ppm	-	200 ppm	-	-	200 ppm	250 ppm	-

Component	CAS Number	Percent %	1990 NIOSH IDLH (Recognized by OSHA)	1994 NIOSH IDLH
PROPYL ACETATE	109-60-4	99.5	8,000 ppm	1700 ppm

Comments: Oxea has adopted the ACGIH TLVs
 * Workplace Exposure Limit

9. Physical and Chemical Properties

Appearance: Clear, colorless mobile liquid.

Odor: Strong, fruity odor

Vapor Pressure: 25 mm Hg at 20 deg C

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Vapor Density (Air=1 @ 20°C): 3.5

Boiling Point (760 mmHgA): 101.6 C (214.88 F)

Freezing Point: - 92.5 C (-134.5 F)

Solubility in Water @ 20°C: 2.3 %

Specific Gravity: 0.887 @ 20 deg C

Evaporation Rate (n-Butyl acetate = 1): 2.2

10. Stability and Reactivity

Stability: Stable.

Conditions to Avoid: Avoid heat , flames, sparks, and other sources of ignition.

Incompatibility: Keep away from peroxides and other polymerization initiators, oxidizing agents such as nitric acid, perchloric acid, chromium trioxide, chlorosulfonic acid, silica gel, alumina, strong acids or amines.

Hazardous Combustion or Decomposition Products: Thermal decomposition products may include oxides of carbon.

Hazardous Polymerization: Hazardous polymerization will not occur.

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11 Toxicological Information

Component Toxicological Information

Component	PROPYL ACETATE
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Acute Exposure:

Oral LD50: 8.7-9.37 g/kg (rats); practically nontoxic to animals.

Inhalation LC50: Mortalities in 4/6 animals following exposure to 8000 ppm (rat, 4 hrs.); Slightly toxic to animals. Causes CNS depression.

Skin: Mildly irritating to rabbit skin. Practically nontoxic to animals (LD50, rabbit, >20 g/kg).

Eyes: Irritating to eyes.

Mutagenicity: Not mutagenic *in vitro* in the Ames test; equivocal in yeast. No information *in vivo*.

Carcinogenicity: No information.

Reproductive/Developmental Effects: No information.

Repeated Exposure: No information.

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Ecological Information

Component Ecological Information

Component	PROPYL ACETATE
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Ecotoxicity: Propyl acetate exhibits low acute toxicity to aquatic species. The 96-hour LC50 for the fathead minnow (*Pimephales promelas*) is 56-64 ppm. The 48-hour LC50 for fish (*Leuciscus idus melanotus*) is 97-194 ppm. The 24-hour EC50 for the water flea (*Daphnia magna*) is 318-511 ppm. Toxicity thresholds for green algae (*Scenedesmus quadricauda*), bacteria and protozoa are 26 ppm, 170-530 ppm, and 97-1123 ppm, respectively. The 24-hour Tolerance Limit (TLM) for brine shrimp (*Artemia salina*) is 820 ppm.

Environmental Fate:

Degradation: Propyl acetate is rapidly degraded. In freshwater, 5- and 10-day BOD values were 62 and 80%, respectively. In saltwater the 5- and 10-day BOD values were 50 and 70%, respectively. The estimated half-life for volatilization of n-propyl acetate from a model river is 6.5 hrs. Estimated hydrolysis half-lives at pHs of 8, 9 and 10 are 92 days, 9.2 days and 22 hrs., respectively. The estimated atmospheric half-life produced by degradation with hydroxyl radicals ranges from 3.9-6.7 days.

Bioaccumulation: The log octanol/water partition coefficient for n-propyl acetate is estimated to be 1.23. The bioconcentration factor (BCF) is estimated to range from 2.5 to 5.1. This indicates that n-propyl acetate has low potential to bioaccumulate.

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13. Disposal Considerations

Dispose of spilled material in accordance with state and local regulations for hazardous waste. Recommended methods are incineration or biological treatment at a federally or state-permitted disposal facility. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate. State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is with the owner of the waste. See Section 9 - Physical and Chemical Properties.

EPA Hazardous Waste Code(s): D001

14. Transport Information

US Department of Transportation:

UN/NA Number: UN 1276
Shipping name: N-PROPYL ACETATE
Hazard class: 3
Packing Group: II
Emergency Response Guide: 129

ICAO/IATA:

IATA UN Number: UN 1276
Proper Shipping Name: N-PROPYL ACETATE
Hazard Classification: 3
Packing group: II

IMDG:

International Marine UN Number: UN 1276
Proper Shipping Name: N-PROPYL ACETATE
Hazard Class: 3
Packing Group: II
Flash point (test method): 12.8 C (55 F)

Transport Canada

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