

MATERIAL SAFETY DATA SHEET



n-Propyl acetate

Section 1 - Chemical Product and Company Identification

MSDS Name:	n-Propyl acetate
Synonyms:	
Company Identification: (INDIA)	Veritas House, 70 Mint Road, Fort, Mumbai - 400 001. INDIA
For information in the INDIA, call:	Tel: +91 - 22 - 2275 5555 / 6184 0000, Fax: +91 - 22 - 2275 5556 / 6184 0001

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
109-60-4	n-Propyl acetate	99%	203-686-1

Hazard Symbols:	XI F
	
Risk Phrases:	11 36 66 67

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Potential Health Effects

Eye:	Causes eye irritation. Causes redness and pain.
Skin:	Causes skin irritation. May be harmful if absorbed through the skin. Repeated or prolonged exposure may cause drying and cracking of the skin.
Ingestion:	May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. May cause central nervous system depression.
Inhalation:	Causes respiratory tract irritation. May cause narcotic effects in high concentration. May be harmful if inhaled. Inhalation of vapors may cause drowsiness and dizziness.
Chronic:	Prolonged or repeated skin contact may cause defatting and dermatitis.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Get medical aid. Wash mouth out with water.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.
Extinguishing Media:	Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. Water may be ineffective. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling:	Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use only in a chemical fume hood.
Storage:	Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.
Exposure Limits	CAS# 109-60-4: United Kingdom, WEL - TWA: 200 ppm TWA; 849 mg/m ³ TWA United Kingdom, WEL - STEL: 250 ppm STEL; 1060 mg/m ³ STEL United States OSHA: 200 ppm TWA; 840 mg/m ³ TWA Belgium - TWA: 200 ppm VLE; 847 mg/m ³ VLE Belgium - STEL: 250 ppm VLE; 1055 mg/m ³ VLE France - VME: 200 ppm VME; 840 mg/m ³ VME Germany: 100 ppm TWA; 420 mg/m ³ TWA Japan: 200 ppm OEL; 830 mg/m ³ OEL Malaysia: 200 ppm TWA; 835 mg/m ³ TWA

	Netherlands: 200 ppm STEL; 800 mg/m ³ STEL Netherlands: 100 ppm MAC; 420 mg/m ³ MAC
	Spain: 200 ppm VLA-ED; 849 mg/m ³ VLA-ED Spain: 250 ppm VLA-EC; 1060 mg/m ³ VLA-EC
Personal Protective Equipment	
Eyes:	Wear chemical splash goggles.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	APHA: 15 max
Odor:	odor of pears
pH:	Not available
Vapor Pressure:	33mbar @20 deg C
Viscosity:	0.58 mPas @20 deg C
Boiling Point:	102 deg C @760mmHg (215.60°F)
Freezing/Melting Point:	-95 deg C (-139.00°F)
Autoignition Temperature:	450 deg C (842.00 deg F)
Flash Point:	10 deg C (50.00 deg F)
Explosion Limits: Lower:	1.8 Vol %
Explosion Limits: Upper:	8 Vol %
Decomposition Temperature:	Not available
Solubility in water:	2g/100ml (20°C)
Specific Gravity/Density:	0.880 g/cc
Molecular Formula:	C ₅ H ₁₀ O ₂
Molecular Weight:	102.13

Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, ignition sources, excess heat, exposure to moist air or water.
Incompatibilities with Other Materials	Strong oxidizing agents, strong oxidizing agents, acids, bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 109-60-4: AJ3675000
LD50/LC50:	RTECS: CAS# 109-60-4: Draize test, rabbit, eye: 500 mg/24H Mild; Oral, mouse: LD50 = 8300 mg/kg; Oral, rabbit: LD50 = 6640 mg/kg; Oral, rat: LD50 = 9370 mg/kg; Skin, rabbit: LD50 = >20 mL/kg; Other: Oral, rat: LD50 => 2000 mg/kg Irritation: Skin, rabbit: mild Eye, rabbit: mild

Carcinogenicity:	n-Propyl acetate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity:	Daphnia: Daphnia: EC50: 318mg/l; 24h; . Fish: Fathead Minnow: LC50: 56-64.0 mg/l; 96h; Fish: Leuciscus idus: LC50: 97.0-194 mg/l; 48h;
Other:	Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	N-PROPYL ACETATE	PROPYL ACETATE	n-PROPYL ACETATE
Hazard Class:	3	3	3
UN Number:	1276	1276	1276
Packing Group:	II	II	II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI F

Risk Phrases:

- R 11 Highly flammable.
- R 36 Irritating to eyes.
- R 66 Repeated exposure may cause skin dryness or cracking.
- R 67 Vapours may cause drowsiness and dizziness.

Safety Phrases:

- S 16 Keep away from sources of ignition - No smoking.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 29 Do not empty into drains.
- S 33 Take precautionary measures against static discharges.

WGK (Water Danger/Protection)

- CAS# 109-60-4: 1

Canada

- CAS# 109-60-4 is listed on Canada's DSL List

US Federal

- TSCA
- CAS# 109-60-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	July 24, 2015
Revision #0 Date	

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