



SAFETY DATA SHEET

N-PROPYL ACETATE

1.IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: N-PROPYL ACETATE

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**
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2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s):

- 1.) Highly flammable liquid and vapour.
- 2.) May causes skin and eye irritation.
- 3.) Harmful toxicity to Aquatic.
- 4.) May cause drowsiness or dizziness.
- 5.) Causes serious eye irritation.

Precautionary statement(s):

- 1.) Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. - No smoking.
- 2.) Keep container tightly closed.
- 3.) Ground/bond container and receiving equipment.



- 4.) Use explosion-proof electrical/ventilating/lighting/equipment.
- 5.) Use only non-sparking tools.
- 6.) Take precautionary measures against static discharge.
- 7.) Avoid breathing dust/fume/gas/mist/vapours/spray.
- 8.) Wash thoroughly after handling
- 9.) Use only outdoors or in a well-ventilated area.
- 10.) Wear protective gloves/protective clothing/eye protection/face protection.
- 11.) IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 12.) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 13.) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 14.) Call a POISON CENTER or doctor/if you feel unwell.
- 15.) If eye irritation persists: Get medical advice/attention.
- 16.) Store in a well-ventilated place. Keep container tightly closed.
- 17.) Store in a well-ventilated place. Keep cool.
- 18.) Store locked up.
- 19.) Dispose of contents/container in accordance with local regional/national/international regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: Acetic acid n-propyl ester, Acetic acid propyl ester, 1-Acetoxypropane, 1-Propyl acetate, n-Propyl ethanoate, Acetate de propyl normal.

| Ingredients | % (w/w) | CAS NO. |
|------------------|---------|----------|
| N-PROPYL ACETATE | 100 | 109-60-4 |

4. FIRST AID MEASURES

- Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Get medical attention immediately.
- Skin contact:** Wash off with soap and plenty of water. Consult a physician.
- Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Ingestion:** Not allowed to feed the any food or water if patient is unconscious. Do not induce vomiting. Feed the patient 240 – 300 ml of water. Get medical attention immediately.



5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use alcohol-resistant foam, dry chemical powder or carbon dioxide.

Unsuitable Extinguishing Media:

Water

Specific hazards arising from Chemicals:

Carbon oxides

Special protective equipment for fire-fighters:

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEAS

Precautions:

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulation to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Material for Containment and Clean Up:

Do not allow material to enter sewers or ground. Spill Release (Small): Absorb on vermiculite or similar material, isolate discharged material for proper disposal, then wash the contamination area by water. Spill release (Large): call the fire brigade and emergency response center for help.

7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for Safe Storage & Unsuitable Materials:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 200 ppm

Appropriate Engineering Controls: It is recommended that work be done in an adequately ventilated area. Safety Shower and eye bath.

Individual Protection Measures

Respiratory protection: Use a full-face supplied air respirator.

Hand protection: Wear impervious chemical resistant gloves.

Eye protection: Wear chemical goggles.

Skin and body protections: Protection suit and boots for chemical resistant.

Hygiene Practices: Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical product, before eating, smoking and using the lavatory and at the end of the working period. Keep the workplace clean.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| Form, Color and Odor : liquid, Colorless | Evaporation rate : 6.1 (ether = 1) |
| Melting Point : -92 °C | Specific gravity : 0.885-0.890 g/cm ³ at 20 °C |
| pH : N/A | Solubility in water : Soluble 18.9g / 100ml in water at 20 °C |
| Boiling point : 101.6 °C | Viscosity : N/A |
| Vapour pressure : 25 mmHg at 25 °C | Vapour density (air=1) : 3.52 g/ml |
| Lower explosive limits : 1.7 – 2.0 %Vol | Upper explosive limits : 8.0%Vol |
| Auto-ignition temperature : 450 °C | Flash point: 13 - 14.4 °C |
| Odour threshold: 0.048 – 0.7 ppm(detect), 0.14 – 26 ppm(perceive) | Flammability (solid, gas): N/A |
| Decomposition temperature: N/A | Solubility in other solvents: N/A |
| n-octanol/water partition coefficient (log P_{ow}): 1.24 | |

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable without water.

Reactions: No data available

Possibility of Hazardous Reactions: React with strong oxidizing agents, strong bases, strong acid and Reactive nitride.



| | |
|--|---|
| Conditions to avoid: | Avoid contact with heat, open flame, sparks or ignition sources. Extremes of temperature and direct sunlight. |
| Materials to avoid: | Oxidizing agents, strong bases, strong acids, reactive nitride, strong oxidizing agents. |
| Hazardous decomposition products: | Acetic acid and n-propanol. |

11. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| Acute toxicity: | LD50 (Oral, rat): 8700 - 9370 mg/kg LD50 (Dermal, rabbit): >17740 mg/kg |
| Sensitization: | Excessive overexposure may cause giddiness, dizziness, headache, nausea and in extreme cases, unconsciousness and respiratory depression. |
| Chronic toxicity: | May cause dry skin by dissolving skin oils. Prolonged contact may cause burns with redness and pain. |
| Further toxicological information: | No data available |

12. ECOLOGICAL INFORMATION

Toxicity

| | |
|--|--|
| Toxicity to fish: | LC50 - Fish: 56 - 60 mg/l- 96h |
| Toxicity to daphnia and other aquatic invertebrates: | EC50 - Daphnia magna: 318 mg/l -24h |
| Toxicity to algae: | No data available |
| Toxicity to bacteria: | No data available |
| Biodegradability Remarks: | BOD ₅ is 62%, Might be decomposition in water |
| Bioaccumulative Potential: | May not cause Bio-accumulative. |
| Mobility: | In to the ground water and volatile ASPS. |
| Affected in any other way: | No known significant effects or critical hazards. |

13. DISPOSAL CONSIDERATIONS

| | |
|----------------------------|--|
| Material Disposal: | Disposal of in a manner consistent with federal, state and local regulation. Burning method is recommended. |
| Container Disposal: | No data available. |

**14. TRANSPORT INFORMATION****ADR/ADNR**

UN-NO: 1276 Class: 3 Packing group : III

Proper shipping group: n-PROPYL ACETATE

IMGD

UN-NO: 1276 Class: 3 Packing group: III

Marine pollutant: No

Proper shipping group: n-PROPYL ACETATE

IATA

UN-NO: 1276 Class: 3 Packing group: III

Proper shipping group: n-Propyl acetate

15. REGULATORY INFORMATION

| Component | CHINA | TSCA | ENCS | EINECS |
|------------------|-------|------|------|--------|
| n-Propyl Acetate | ✓ | ✓ | ✓ | ✓ |

Note1:

CHINA – China Inventory of Existing Chemical Substances

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

ENCS – Japan Existing and New Chemical Substances

EINECS – European Inventory of Existing Commercial Chemical Substances

Note2:

- ✓ Indicates that the substance included in the regulations
- That no data or included in the regulations

Application Regulation

1. Labor Safety and Health Law.
2. Dangerous Chemical Material Symbol Act.
3. Fire Services Act.



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16. Other Information

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