

Safety Data Sheet



SECTION 1: Identification of the substance/mixture and the company/undertaking

1.1 Production identifiers

Product name : N-PROPYL ACETATE
Brand : CJ Chemicals LLC
CAS-No. : 109-60-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : CJ Chemicals LLC
3469 E Grand River Rd #112
Howell, MI 48843
United States

Telephone : +1 (888) 274-1044

1.4 Emergency Telephone

Emergency Phone # : 1-800-424-9300 CHEMTREC (USA)
1-703-527-3887 CHEMTREC (international) 24 hours/day; 7 days/week

SECTION 2 HAZARDS IDENTIFICATION

| | | |
|-------------------------|---|--|
| OSHA/GHS Hazards | Flammable liquids Eye irritation Specific target organ toxicity - single exposure | Category 2 Category 2A Category 3 (Narcotic effects) |
|-------------------------|---|--|

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves/ eye protection/ face protection.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.

Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.

Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Components</u> | <u>CAS-No.</u> | <u>Weight percent</u> |
|-------------------|----------------|-----------------------|
| Propyl Acetate | 109-60-4 | 100 |

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice. Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion Vapours may form explosive mixture with air. Use water spray to disperse the vapors. Flash back possible over considerable distance. NFPA Class 1B flammable liquid.

Suitable extinguishing media Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit. Keep containers and surroundings cool with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

Spill precautions Material can create slippery conditions.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition. Use only with adequate ventilation.

Storage/Transport pressure Ambient

Load/Unload temperature Ambient

Further information on storage conditions Keep away from heat and sources of ignition.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Wear as appropriate: Goggles, Face-shield

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Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory protection.

EXPOSURE GUIDELINES

| <u>Components</u> | <u>Exposure limit(s)</u> |
|-----------------------|---|
| Propyl Acetate | OSHA PEL (Permissible Exposure Limit) 200 ppm 840 mg/m ³ ACGIH TLV (8-hour) 200 ppm ACGIH STEL (Short Term Exposure Limit) 250 ppm |

PEL= Permissible Exposure Limits
TLV= Threshold Limit Value
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)
STEL= Short Term Exposure Limit (15 min.)
WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

Colour colourless

Form liquid

Odour ester-like

Odour Threshold No data available

Flash point 11.8 °C, 53.2 °F;

Flammability Upper explosion limit: 8 %(V)

Lower explosion limit: 2 %(V)

Boiling point/boiling range 101.5 °C, 215 °F;

Melting point/range -93 °C, -136 °F;

Auto-ignition temperature 380 °C, 716 °F;

Decomposition temperature Decomposes on heating.

Flammability (solid, gas) No data available

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|---|--|
| Vapour pressure | 47.9 hPa @ 25 °C, 77 °F; |
| Vapour density | 3.52 |
| Density | 0.89 g/cm ³ @ 20 °C, 68 °F; |
| Relative density | No data available |
| Water solubility | completely miscible |
| Viscosity | No data available |
| Viscosity, dynamic | 0.58 mPa.s @ 20 °C, 68 °F; |
| pH | No data available |
| Evaporation rate | No data available |
| Partition coefficient: n-octanol/water | log Pow: 1.4; @ 25 °C, 77 °F; |
| Volatile organic compounds (VOC) content | 100 % |

SECTION 10 STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | No decomposition if stored and applied as directed. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Heat, flames and sparks. Direct sources of heat. Extremes of temperature and direct sunlight. |
| Hazardous decomposition products | Combustion products include carbon dioxide, carbon monoxide and possibly other unidentified organic compounds. |
| Materials to avoid | Oxidizing agents |
| Hazardous polymerisation | Vapours may form explosive mixture with air. |

SECTION 11 TOXICOLOGICAL INFORMATION

| | |
|------------------------------|---|
| Acute dermal toxicity | LD50 Rat: > 2,000 mg/kg (literature value) |
|------------------------------|---|

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| | |
|--|--|
| Acute inhalation toxicity | No data available |
| Acute oral toxicity | LD50 Rat: > 2,000 mg/kg (literature value) |
| Skin corrosion/irritation | (Rabbit) slight irritation (literature value) |
| Serious eye damage/eye irritation | (Rabbit) irritating (literature value) |
| Respiratory or skin sensitisation | No data available |
| Germ cell mutagenicity | Genotoxicity in vitro: No data available Genotoxicity in vivo: No data available Assessment Mutagenicity: No data available |
| Reproductive toxicity | Reproductive toxicity: No data available Assessment Reproductive toxicity: No data available Teratogenicity: No data available Assessment teratogenicity: No data available |
| STOT - single exposure | The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. |
| STOT - repeated exposure | No data available |
| Aspiration toxicity | No data available |
| Carcinogenicity | Assessment carcinogenicity: Contains no ingredient listed as a carcinogen |

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SECTION 12 ECOLOGICAL INFORMATION

| | |
|--|---|
| Toxicity to fish | LC50 (Pimephales promelas (fathead minnow)) 96 hours: > 10 - 100 mg/l; static test (literature value) |
| Toxicity to aquatic invertebrates | EC50 (Daphnia magna (Water flea)) 48 hours: > 10 - 100 mg/l; static test (literature value) |
| Toxicity to algae | EC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: > 100 mg/l; static test (literature value) |
| Biodegradation | Readily biodegradable. OECD Test Guideline 301D (20 d): > 60 % (literature value) |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Other adverse effects | This substance is not considered to be persistent, bioaccumulating and toxic (PBT).; |

SECTION 13 DISPOSAL CONSIDERATIONS

| | |
|--------------------------|--|
| Waste Code | D001 - Ignitability (RQ 100 LB). Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. |
| Disposal methods | Land disposal of this product is restricted. Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil. |
| Empty containers. | Empty containers retain product residue (liquid and/or vapor) 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; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed. |

SECTION 14 TRANSPORT INFORMATION

DOT UN 1276, n-Propyl Acetate, 3, II

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IATA UN 1276, n-Propyl Acetate, 3, II

IMDG UN 1276, n-Propyl Acetate, 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Inventory Listing

Components

Acetic acid, propyl ester

CAS-No.

109-60-4

All chemical substances in this product are either on the TSCA Active Inventory, or in compliance with the inventory.

SARA 302 Status

Components

CAS-No.

Weight percent

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

Flammable liquids, Eye irritation, Specific target organ toxicity - single exposure

SARA 313 Chemical

Components

CAS-No.

Weight percent

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Components

Reportable Quantity

Weight percent

none

INTERNATIONAL REGULATIONS

WHMIS Classification

Flammable liquids

Category 2

Eye irritation

Category 2A

Specific target organ toxicity -

Category 3 (Narcotic effects)

single exposure

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European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2

Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3 (Narcotic effects)

| | |
|---|------------|
| Australia. Inventory of Chemical Substances (AICS) | Listed |
| Japan. Inventory of Existing and New Chemical Substances (ENCS) | Listed |
| Japan. ISHL - Inventory of Chemical Substances | Listed |
| Canada. Domestic Substances List (DSL) Inventory | Listed |
| Canada. Non-Domestic Substance Listing (NDSL) | Not listed |
| Philippines. Inventory of Chemicals / Chemical Substances (PICCS) | Listed |
| Korea. Existing Chemicals Inventory (KECI) | Listed |
| China. Inventory of Existing Chemical Substances (IECSC) | Listed |
| Mexico. National Inventory of Chemical Substances (INSQ) | Listed |
| New Zealand. Inventory of Chemical Substances (NZIoC) | Listed |
| Switzerland. Inventory of Notified New Substances (CHINV) | Listed |
| Taiwan. National Existing Chemical Inventory (NECI) | Listed |

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65

Components

none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

| | <u>Health</u> | <u>Flammability</u> | <u>Physical Hazard/ Instability</u> |
|-------|---------------|---------------------|---|
| HMIS® | 2 | 3 | 0 |
| NFPA | 2 | 3 | 0 |

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