TENRYU (THAILAND) CO., LTD.

Safety Data Sheet

n-Propyl Acetate

Code: 04-003-0 Prepared By: TENRYU (THAILAND) Validation Date: 04-Jan-2021

1. Identification of the substance or mixture and of the supplier

Trade Name : n-Propyl Acetate, NPAC

Material Uses : Solvent is used in plaints and plastics industry. Solvent used in lacquer

thinners and etc.

Supplier : TENRYU (THAILAND) Co., Ltd.

149/44 Moo 7, Bang Chalong Subdistrict, Bang Phli District,

Samut Prakan Province 10540

Tel: +66 2-0058388 Mobile: +66 64-789-1461

Fax: +66 2-0058389

Emergency Contact : +66 64-789-1461

2. Hazards Identification

GHS Classification : Flammable liquids : Category 2

: Eye irritation : Category 2

: Specific target organ toxicity following single exposure : Category 3

Signal Word : Warning

Health Hazard . Irritating to skin, eyes and respiratory system. Vapours may cause

drowsiness and dizziness.

Environmental Hazard : Annex 1 substance under review by the EU commission.

GHS Pictogram





GHS Hazard Statements : H225 Highly flammable liquid and vapour.

: H319 Causes serious eye irritation.

: H336 May cause drowsiness or dizziness.

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GHS Precautionary Statements

Prevention	P210	Keep away from heat/sparks/open flames/hot surfaces and non-smoking.
	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 measure against static discharge.
	P261	Avoid breathe dust/fume/gas/mist/vapours/spray.
	P264	Wash thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/eye protection/face protection.
Response	If on skin	
	P303+P361 +P353	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P370+P378	In case of fire: Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.
	<u>If in eye</u> P305+P351 +P338	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.
	<u>If inhaled</u> P304+P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Storage	P403+P233	Store in a well-ventilated place. Keep container tightly closed.
	P235	Keep cool.
	P405	Store locked up.
Disposal	P501	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

Precautionary Pictograms













3. Composition/Information on Ingredients

Chemical Name : n-Propyl Acetate

Common Name : n-Propyl Acetate, NPAC

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Synonyms Name : Acetic Acid Propyl Ester

CAS No. : 109-60-4

UN No. : 1276

Molecular Weight : 102.13

Chemical Formula : CH₃COO(CH₂)₂CH₃

4. First-Aid Measures

Inhalation : Remove to fresh air. If the victim has difficulty breathing or tightness of

the chest, give 100% oxygen with rescue breathing or CPR as required

and transport to the nearest medical facility.

Skin Contact : Remove contaminated clothing. Immediately flush skin with large

amounts of water for at least 15 minutes, and follow by washing with

soap and water if available.

Eye Contact : Immediately flush eyes with large amounts of water for at least 15

minutes while holding eyelids open. Transport to the nearest medical

facility for additional treatment.

Ingestion : Do not induce vomiting; Do not eat milk and castor oil, transport to

nearest medical facility for additional treatment.

5. Fire-Fighting Measures

Suitable extinguishing media : Dry chemical powder, Alcohol-resistant foam and Carbon dioxide.

Specific hazard arising from

the chemical

May produce toxic fumes of carbon monoxide, carbon dioxide if

burning.

Special protective action for

fire-fighters

Keep adjacent containers cool by spraying with water.

Protective Equipment : Wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

Protective Measures : • Observe all relevant local and international regulations.

 Avoid contact with spilled or released material. Immediately remove all contaminated clothing. For guidance on selection of personal protective equipment see chapter 8 this Material Safety Data Sheet. Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other

appropriate barriers.

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• Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Clean-Up Methods

 Small spillage (< 200 LT) : Transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Large spillage(> 200 LT)

Transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Other Information

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

7. Handling And Storage

Handling : Avoid contact with skin, eyes, and clothing. Do not breathe vapours.

Extinguish any naked flame. Remove ignition sources. Avoid sparks. Do not smoke. The vapour is heavier than air spreads along the ground and distant ignition is possible. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Do not use compressed air for filling, discharging, or handling operations. Handle and open container

with care in well-ventilated area. Do not empty into drains.

Storage : Must be stored in a diked (bonded) well-ventilated area, away from

sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bonded). Keep away from aerosols, flammables,

oxidizing agents, corrosives. Storage Temperature: Ambient.

Product Transfer : Keep containers closed when not in use. Do not use compressed air for

filling, discharging, or handling operations. If positive displacement pumps are used, these must be fitted with a non-integral pressure relief valve. Ensure electrical continuity by bonding and grounding (earthing)

all equipment.

Recommended Materials : For containers, or container linings use mild steel, stainless steel.

Additional Advice : Containers even those that have been emptied, can contain explosive

vapours. Do not cut, drill, grind, weld or perform similar operations on

or near containers.

8. Exposure Controls and Personal Protection

Exposure Standard : Occupational Exposure Limits

TLV-TWA = 200 ppm

TLV-STEL = 250 ppm

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Engineering Controls

Workplace

: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold

limit value.

Respiratory Protection : Vapor respirator. Be sure to use an approved/certified respirator or

equivalent. Wear appropriate respirator when ventilation is inadequate.

Hand Protection : Butyl rubber gloves, Nature rubber gloves, Neoprene rubber gloves,

Nitrile rubber gloves.

Eye Protection : Chemical splash goggles (chemical monogoggles).

Other Protection : Use protective clothing which is chemical resistant to this material.

Safety shoes and boots should also be chemical resistant.

9. Physical and Chemical Properties

Appearance : Clear liquid

Odour : Ester odour

pH Value : No data available

Boiling Point (°C) : 102 °C

Melting Point (°C) : - 92 °C

Flash Point : 13 °C

Evaporating Rate : No data available

Lower/Upper Flammability limits : 1.7 - 8 %V

Vapour Pressure (mmHg) : 2.3 mmHg @ 20 °C

Specific Gravity : 0.889 @ 20 °C (ASTM D4052)

Density (g/cm³) : 0.885 - 0890 @ 20 °C (ASTM D4052)

Vapour Density : 3.5 @ 20 °C (air = 1)

Solubility in Water : $2.3 \text{ g/100 ml} @ 20 ^{\circ}\text{C} (ASTM D1722)$

Auto Ignition Temperature : 457 °C

10. Stability and Reactivity

Chemical Reactivity : Stable under normal conditions.

Stability : Stable under normal conditions.

Hazardous Polymerisation : No.

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Conditions to Avoid : Heat, flame, spark and other ignition sources.

Materials to Avoid : Strong oxidizing agents.

Hazardous Decomposition

Products

: Thermal decomposition is highly dependent on conditions. Carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or

oxidative degradation. May form explosive peroxides.

11. Toxicological Information

Acute Toxicity

LD₅₀ Acute oral toxicity
LC₅₀ Acute inhalation toxicity
9,370 mg/kg, (rat)
8,000 mg/m³/4 hours, (rat)

Skin Irritation : Irritating to skin. Prolonged/repeated contact may cause defatting

of the skin which can lead to dermatitis.

Eye Irritation : Irritating to eyes. Inflammation of the eye is characterized by

redness, pain and itching.

Respiratory Irritation : Inhalation of vapours or mists may cause irritation to the

respiratory system.

Carcinogenicity : No data available.

12. Ecological Information

Acute Toxicity

• Fish : Low toxicity : $LC_{50} > 194 \text{ mg/l}$ • Daphnia : Low toxicity : $EC_{50} > 318 \text{ mg/l/24 h.}$

Mobility : Slightly dissolves in water.

If product enters soil, it will highly mobile and may contaminate

groundwater.

Persistence / Degradability : Readily biodegradable.

Bio-accumulation : Not expected to bioaccumulate significantly.

13. Disposal Considerations

Material Disposal : Recover or recycle if possible. It is the responsibility of the waste

generator to determine the toxicity and physical properties of the material generated to determine the proper waste classifications and disposal methods in compliance with applicable regulations.

Container Disposal : Drain container thoroughly. After draining, vent in a safe place

away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum

recovered or metal reclaimed.

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Local Legislation : Disposal should be in accordance with applicable regional,

national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must

be complied with.

14. Transport Information

Road/Rail Transport ADR/RID

• UN. Number : 1276

• Class/Item : 3/3 (b)

Hazard Symbol : Flammable Liquid

Proper Shipping Name : n-Propyl Acetate

• Packing Group : II

Maritime Transport IMO

• UN. Number : 1276

• Class : 3.2

• Packing Group : II

Hazard Symbol : Flammable Liquid

Proper Shipping Name : n-Propyl I Acetate

Marine Pollutant : No

Air Transport IATA/ICAO

• UN. Number : 1276

• Class : 3

• Packing Group : II

Hazard Symbol : Flammable Liquid

Proper Shipping Name : n-Propyl Acetate

15. Regulatory Information

EC Label Name : n-Propyl Acetate

EC Classification : Highly Flammable

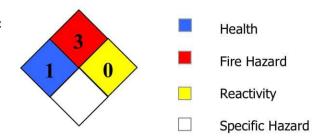
EINECS (EC) : 203-686-1

EC Annex I Number : 607-024-006

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16. Other Information

National Fire Protection Association (USA)



SDS Distribution : The information in this document should be made available to all

who may handle the product.

Prepared By : TENRYU (THAILAND) Co., Ltd.

Disclaimer:

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

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