



TCI AMERICA

SAFETY DATA SHEET

Revision number: 4
Revision date: 08/18/2015

1. IDENTIFICATION

Product name: Propyl Acetate
Product code: A0044

Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
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2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
Eye Damage/Irritation [Category 2B]
Specific Target Organ Toxicity (Single Exposure) [Category 1]
Specific Target Organ Toxicity (Single Exposure) [Category 2]
Specific Target Organ Toxicity (Single Exposure) [Category 3]
Flammable Liquids [Category 2]
Aquatic Hazard (Acute) [Category 3]

Signal word: Danger!

Hazard Statement(s):
Causes eye irritation
Highly flammable liquid and vapor
Harmful to aquatic life
Causes damage to: Central Nervous System
May cause damage to organs: Liver
May cause respiratory irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):



Precautionary Statement(s):
[Prevention]

Wash hands and face thoroughly after handling. Do not breathe fume, mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash all exposed skin thoroughly after handling. Avoid breathing fume, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Keep container tightly closed. Ground or bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting, and equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection.

[Response]

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. If exposed: Call a poison center or doctor. If exposed or concerned: Call a poison center or doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish.

[Storage]

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool.

2. HAZARD(S) IDENTIFICATION**[Disposal]**

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

Hazards not otherwise classified: [HNOC] Causes mild skin irritation. May be harmful if inhaled.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture:	Substance
Components:	Propyl Acetate
Percent:	>98.0%(GC)
CAS Number:	109-60-4
Molecular Weight:	102.13
Chemical Formula:	C ₅ H ₁₀ O ₂
Synonyms:	Acetic Acid Propyl Ester

4. FIRST-AID MEASURES

Inhalation:	Call emergency medical service. Effects of exposure (inhalation) to substance may be delayed. Inhalation of vapors or contact with substance will result in contamination and potential harmful effects. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin contact:	Call a poison center or doctor if you feel unwell. Effects of exposure (skin contact) to substance may be delayed. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Do not induce vomiting without medical advice. Effects of exposure (ingestion) to substance may be delayed. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Symptoms/effects:

Acute:	Dizziness. Redness. Drowsiness.
Delayed:	May have effects on the respiratory tract.

Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, CO ₂ , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.
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Specific hazards arising from the chemical

Hazardous combustion products:	These products include: Carbon oxides
Other specific hazards:	Closed containers may explode from heat of a fire.

Special precautions for fire-fighters:

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move containers from fire area if you can do it without risk.

5. FIRE-FIGHTING MEASURES**Special protective equipment for fire-fighters:**

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark-proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Personal protective equipment:

Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

Emergency procedures:

Isolate area until gas has dispersed. Do not clean-up or dispose except under supervision of a specialist. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill; use dry sand to contain the flow of material.

Environmental precautions:

Keep away from living quarters. Environmental hazard. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

7. HANDLING AND STORAGE**Precautions for safe handling:**

Do NOT breathe gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

Conditions for safe storage:

Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.

Storage incompatibilities:

Combustible substances, Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits:**

ACGIH TLV (TWA):	200 ppm
ACGIH TLV (STEL):	250 ppm
OSHA PEL (TWA):	200 ppm

Appropriate engineering controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment**Respiratory protection:**

Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection:

Wear protective gloves.

Eye protection:

Splash goggles.

Skin and body protection:

Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state (20°C):**

Liquid

Form:

Clear

Color:

Colorless - Almost colorless

Odor:

Mild Fruity

Odor threshold:

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Melting point/freezing point:	No data available	pH:	No data available
Boiling point/range:	101°C (214°F)	Vapor pressure:	3.3kPa/20°C
Decomposition temperature:	No data available	Vapor density:	3.5
Relative density:	0.89	Dynamic Viscosity:	No data available
Kinematic Viscosity:	No data available		
Partition coefficient: n-octanol/water (log P_{ow})	1.23	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point:	13°C (55°F)	Autoignition temperature:	450°C (842°F)
Flammability (solid, gas):	No data available	Flammability or explosive limits:	
		Lower:	2%
		Upper:	8%
Solubility(ies):			
Water:	Slightly soluble (1.6g/100mL, 16°C)		
Miscible:	Ether, Alcohols		

10. STABILITY AND REACTIVITY

Reactivity:	Not Available.
Chemical Stability:	Stable under recommended storage conditions. (See Section 7)
Possibility of Hazardous Reactions:	In use, may form flammable/explosive vapor-air mixture.
Conditions to avoid:	Avoid excessive heat and light.
Incompatible materials:	Oxidizing agents
Hazardous Decomposition Products:	No data available

11. TOXICOLOGICAL INFORMATION

RTECS Number: AJ3675000

Acute Toxicity:ihl-hmn TCLo:1000 mg/m³

ihl-rat LCLo:8000 ppm/4H

orl-rat LD50:9370 mg/kg

skn-rbt LD50:>20 mL/kg

Skin corrosion/irritation:

skn-rbt 500 mg open MLD

Serious eye damage/irritation:

eye-rbt 500 mg/24H MLD

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

IARC: No data available**NTP:** No data available**OSHA:** No data available**Reproductive toxicity:**

No data available

Routes of Exposure:

Inhalation, Eye contact, Ingestion, Skin contact.

Symptoms related to exposure:

Eye contact may result in redness or pain. Inhalation causes irritation of the lungs and respiratory system. Skin contact may result in redness, pain or dry skin. Overexposure may result in serious illness or death.

Potential Health Effects:

Inhalation causes irritation of the lungs and respiratory system. Skin and eye contact may result in irritation. May be harmful if inhaled or ingested. Overexposure may result in serious illness or death.

Target organ(s):

Causes damage to: Central Nervous System

May cause damage to organs: Liver

May cause respiratory irritation. May cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Fish:** No data available**Crustacea:** No data available**Algae:** No data available**Persistence and degradability:** No data available**Bioaccumulative potential (BCF):** 5**Mobility in soil:** No data available**Partition coefficient:** 1.23**n-octanol/water (log P_{ow})****Soil adsorption (K_{oc}):** 100**Henry's Law:** 22.1**constant (PaM³/mol)****13. DISPOSAL CONSIDERATIONS**

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

DOT (US)

UN number:	Proper Shipping Name:	Class or Division:	Packing Group:
UN1276	n-Propyl acetate	3 Flammable liquid	II

IATA

UN number:	Proper Shipping Name:	Class or Division:	Packing Group:
UN1276	n-Propyl acetate	3 Flammable liquid	II

IMDG

UN number:	Proper Shipping Name:	Class or Division:	Packing Group:
UN1276	n-Propyl acetate	3 Flammable liquid	II

EmS number: F-E, S-D

15. REGULATORY INFORMATION**Toxic Substance Control Act (TSCA 8b.):**

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations**CERCLA Hazardous substance and Reportable Quantity:****SARA 313:** Not Listed**SARA 302:** Not Listed**State Regulations****State Right-to-Know****Massachusetts** Not Listed**New Jersey** Listed**Pennsylvania** Not Listed**California Proposition 65:** Not Listed

15. REGULATORY INFORMATION**Other Information****NFPA Rating:**

Health: 2
Flammability: 3
Instability: 0

HMIS Classification:

Health: 2
Flammability: 3
Physical: 0

International Inventories**WHMIS hazard class:**

B2: Flammable Liquid.
D2A: Materials causing other toxic effects. (Very Toxic)
D2B: Materials causing other toxic effects. (Toxic)
203-686-1

EC-No:**16. OTHER INFORMATION**

Revision date: 08/18/2015

Revision number: 4

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.