Material Safety Data Sheet

Date Created: 03/07/2009
Date Updated: 02/06/2010
Version: 1.0

Section 1 - Product And Company Information

Product	n-Propyl Acetate
Product No	D008
Company	Dynamic N.A. Inc
Address	23 Captains Walk, Milford, CT 06460, U.S.A.
Phone	1 914 965 2077
Fax	1 914 375 2093

Section 2 - Composition/Information On Ingredients

Synonyms	Propyl acetate
CAS #	109-60-4
Formula	$C_5H_{10}O_2$

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
OSHA Hazards: Flammable liquid, Irritant
GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Signal word	Danger
Hazard statement(s)	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS CLASSIFICATION
Health hazard: 2
Flammability: 3
Physical hazards: 0
NFPA RATING
Health Hazard: 2
Fire: 3
Reactivity Hazard: 0
POTENTIAL HEALTH EFFECTS
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Skin: May be harmful if absorbed through skin. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

Section 4 - First Aid Measures

GENERAL ADVICE
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
IF INHALED
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
IN CASE OF SKIN CONTACT
Wash off with soap and plenty of water. Consult a physician.
IN CASE OF EYE CONTACT
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
IF SWALLOWED
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Wear self contained breathing apparatus for fire fighting if necessary.
FURTHER INFORMATION
Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures

PERSONAL 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 accumulating 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 FOR CLEANING UP
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
CONDITIONS FOR SAFE STORAGE
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. Store in cool place.

Section 8 - Exposure Controls / Personal Protection

Contains no substances with occupational exposure limit values.
PERSONAL PROTECTIVE EQUIPMENT
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
HAND PROTECTION
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
EYE PROTECTION
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
SKIN AND BODY PROTECTION
impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
HYGIENE MEASURES
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

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Appearance	Colorless clear liquid
Molecular Weight:	102.13 g/mol
pH	n/a
Melting point	-95 °C (-139 °F) - lit.
Boiling point	102 °C (216 °F) - lit.
Flash point	14 °C (57 °F) - closed cup
Ignition temperature	450 °C (842 °F)
Lower explosion limit	1.7 %(V)
Upper explosion limit	8 %(V)
Vapour pressure	33 hPa (25 mmHg) at 20 °C (68 °F)
Density	0.888 g/cm3 at 25 °C (77 °F)
Water solubility	soluble
Partition coefficient:	log Pow: 1.23
Relative vapour	3.53
Density	- (Air = 1.0)

Section 10 - Stability and Reactivity

CHEMICAL STABILITY
Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS
Vapours may form explosive mixture with air.
CONDITIONS TO AVOID
Heat, flames and sparks. Extremes of temperature and direct sunlight.
MATERIALS TO AVOID
Oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11 - Toxicological Information

ACUTE TOXICITY
LD50 Oral - rat - 9,370 mg/kg
Remarks: Behavioral:Somnolence (general depressed activity). Skin and Appendages: Other: Hair.
LD50 Dermal - rabbit - > 17,740 mg/kg
SKIN CORROSION/IRRITATION
Skin - rabbit - Open irritation test
SENSITISATION
n/a
CHRONIC EXPOSURE

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

POTENTIAL HEALTH EFFECTS
Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Ingestion: May be harmful if swallowed.
Skin: May be harmful if absorbed through skin. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.
Eyes: Causes eye irritation.
SIGNS AND SYMPTOMS OF EXPOSURE
Prolonged or repeated exposure can cause:, narcosis
ADDITIONAL INFORMATION

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RTECS: AJ3675000

Section 12 - Ecological Information

Toxicity
Toxicity to daphnia and other aquatic invertebrates:
EC50 - Daphnia magna (Water flea) - 318 mg/l - 24 h

Section 13 - Disposal Considerations

PRODUCT
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
CONTAMINATED PACKAGING
Dispose of as unused product.

Section 14 - Transport Information

DOT (US)
UN-Number: 1276 Class: 3 Packing group: II
Proper shipping name: n-Propyl acetate
Marine pollutant: No
Poison Inhalation Hazard: No
IMDG
UN-Number: 1276 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: PROPYL ACETATE
Marine pollutant: No
IATA
UN-Number: 1276 Class: 3 Packing group: II
Proper shipping name: n-Propyl acetate

Section 15 - Regulatory Information

OSHA HAZARDS
Flammable liquid, Irritant
DSL STATUS
All components of this product are on the Canadian DSL list.
SARA 302 COMPONENTS
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 COMPONENTS
SARA 313: 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.
SARA 311/312 HAZARDS
Fire Hazard, Chronic Health Hazard

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.