



Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Cellulose nitrate Molecular Formula: Unspecified
Catalog Number(s): 712,714
Company: Scientific Polymer Products, Inc.
6265 Dean Parkway
Ontario, NY 14519
Telephone: 585/265-0413
Fax: 585/265-1390
Website: www.scipoly.com
Emergency Phone Number: 800-255-3924 (CHEM TEL)

Section 2: Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable Liquids, Category 1, H224
Specific Target Organ Toxicity- Single Exposure, Category 3, Central Nervous System, H336

GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard Statement(s)

H224 Extremely flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces – no 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 measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P312 IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P370 + P378 In case of fire, use dry sand, dry chemical or alcohol resistant foam to extinguish.
P403+P233 Store in a well ventilated place. Keep container tightly closed.

P403+P235
P405
P501

Store in a well ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS: May form explosive peroxides. Repeated exposure may cause skin dryness or cracking.

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Section 3: Composition/Information on Ingredients

Chemical Name	CAS-No.	(%)	GHS Classification*
Diethyl ether	60-29-7	>=50 - <70	Flammable Liquid, 1; Acute Toxicity, 4; STOT SE 3; H224, H302, H336
Ethanol	64-17-5	>=30 - <50	Flammable Liquid, 2; H225
Cellulose nitrate	9004-70-0	>5 - <10	Expl. 1,1; H201

Section 4: First Aid Measures

Description of First Aid Measures

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see Section 2) and/or Section 11.

Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available

Section 5: Fire-Fighting Measures

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special Hazards Arising from the Substance of Mixture

Carbon oxides, nitrogen oxides (NOx)

Advice for Fire-Fighting

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, Protective Equipment and Emergency Procedures

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 vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection, see Section 8.

Environmental Precautions

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

Methods and Materials for Containment and 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 vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition- No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see Section 2.2.

Conditions for Safe Storage, Including any Incompatibilities: 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. Do not store together with oxidizing and self-igniting products.

Storage Class (TRGS 510): Flammable liquids

Specific End-Use(s): Laboratory chemicals, Manufacture of substances

Section 8: Exposure Controls/Personal Protection

Control Parameters

Components with Workplace Control Parameters:

Component	CAS-No.	Value	Control Parameters	Basis
Diethyl ether	60-29-7	TWA	400.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks:	Central Nervous System Impairment Upper Respiratory Tract Irritation		
		STEL	500.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks:	Central Nervous System Impairment Upper Respiratory Tract Irritation		
		See Appendix D – Substances with No Established RELs		
		TWA	400.000000 ppm 1,200.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		The value in mg/m3 is APPROXIMATE		
Ethanol	64-17-5	TWA	1,000.000000 ppm	USH. ACGIH Threshold Limit Values (TLV)
	Remarks:	Upper Respiratory Tract Irritation Confirmed Animal Carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is APPROXIMATE		
		TWA	1,000.000000 ppm 1,900.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		STEL	1,000.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks:	Upper Respiratory Tract Irritation Confirmed Animal Carcinogen with unknown relevance to humans		

Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment

Eye/Face Protection

Face-shield and safety glasses. Use equipment for eye protection tested and approved under appropriate governmental standards such as NIOSH (US) or EN 166 (EU).

Skin 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.

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.

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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).

Control of Environmental Exposure

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

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a)	Appearance	Form: Fibrous solid or granular
b)	Odor	Characteristic of isopropanol
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	No data available
l)	Vapor density	No data available
m)	Relative density	No data available
n)	Water solubility	Insoluble
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

Other safety information

No data available

Section 10: Stability and Reactivity

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

Vapors may form explosive mixtures with air

Conditions to Avoid

Heat, flames and sparks. Test for peroxide formation periodically and before distillation. Extremes of temperature and direct sunlight.

Incompatible Materials

Oxidizing agents, alkali metals

Hazardous Decomposition Products

No data available. In the event of a fire, see Section 5.

Section 11: Toxicological Information**Information on Toxicological Effects:****Acute Toxicity**

No data available

Skin Corrosion/Irritation

No data available

Serious Eye Damage/Eye Irritation

No data available

Respiratory or Skin Sensitization

No data available

Germ Cell Mutagenicity

No data available

Carcinogenicity

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.

NTP: 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 NTP.

OSHA: 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 OSHA.

Reproductive Toxicity

No data available

Specific Target Organ Toxicity – Single Exposure

No data available

Specific Target Organ Toxicity – Repeated Exposure

No data available

Aspiration Hazard

No data available

Additional Information

RTECS: Not available

Contact with eyes can cause: Redness, blurred vision. Prolonged or repeated exposure to skin causes defatting and dermatitis. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver-Ingestion may provoke the following symptoms: Irregularities – Based on Human Evidence

Stomach – Irregularities – Based on Human Evidence

Liver-Ingestion may provoke the following symptoms: Irregularities – Based on Human Evidence (Diethyl Ether)

Stomach – Irregularities – Based on Human Evidence (Ethanol)

Section 12: Ecological Information

Toxicity

No data available

Persistence & Degradability

No data available

Bioaccumulation Potential

No data available

Mobility in Soil

No data available

Results of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Adverse Effects

No data available

Section 13: Disposal Considerations

Waste treatment methods

Product

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

US DOT:

Proper Shipping Name:	Nitrocellulose with alcohol	Hazard Class:	4.1
Packing Group:	II	UN#:	2556

IATA:

Proper Shipping Name:	Nitrocellulose with alcohol	Hazard Class:	4.1
Packing Group:	II	UN#:	2556

Section 15: Regulatory Information

SARA 302 Components:

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

SARA 313 Components:

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.

Massachusetts Right-to-Know Components

	<u>CAS-No.</u>
Diethyl ether	60-29-7
Ethanol	64-17-5
Cellulose nitrate	9004-70-0

Pennsylvania Right-to-Know Components:

	<u>CAS-No.</u>
Diethyl ether	60-29-7
Ethanol	64-17-5
Cellulose nitrate	9004-70-0

New Jersey Right-to-Know Components:

	<u>CAS-No.</u>
Diethyl ether	60-29-7
Ethanol	64-17-5
Cellulose nitrate	9004-70-0

California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA Status: Listed

Section 16: Other Information

HMIS Rating		NFPA Rating	
Health:	2	Health:	2
Flammability:	4	Flammability:	4
Reactivity:	1	Reactivity:	1

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.