

Safety Data Sheet (SDS)

Section 1: Chemical Product and Company Identification

Cat#: 3801, 3806, 3820

Part Name: 75% Glycerin/25% Ethanol

Supplier: Decon Laboratories Inc.
460 Glennie Circle King of Prussia, PA 19406
SDS Telephone # (610) 755-0800

Emergency Telephone Numbers

US Chemtrec: (800) 424-9300

Canada: (703) 527-3887

Identified uses: Laboratory use

Section 2: Hazards Identification:

GHS Classification

Flammable Liquids Category 2 H225

Signal Word: DANGER



Hazard and Precautionary Statements

H225: Highly flammable liquid and vapor

P102: Keep out of reach of children

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

NFPA Rating

Hazard Ratings:

These ratings are Decon Laboratories Inc.'s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and list 49).

If no data is listed the information is not available

Health 1 Flammability 3 Reactivity 0

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Section 3: Composition/ Information on ingredients

Note: Items listed with a CASRN number have no CAS# available

Item#	Name	EINECS	CAS #	Classification	% in Product
1	Ethanol	200-578-6	64-17-5	R11	25
2	Glycerin	200-289-5	56-81-5	Classified Non Hazardous under GHS	75

Section 4: First Aid Measures

Description of First-Aid Measures

General Advice	When symptoms persist or in all cases of doubt seek medical advice
Eye Contact physician	Rinse thoroughly with plenty of water for at least 15 minutes and consult a
Skin Contact physician. Wash	Rinse thoroughly with plenty of water for at least 15 minutes and consult a off immediately with soap and plenty of water while removing all contaminated clothes and shoes
Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
Inhalation physician	Remove from exposure. If not breathing, give artificial respiration Consult a
Protection of First-Aiders	Remove all sources of ignition

Most Important Symptoms and Effects, Both Acute and Delayed

Main Symptoms	Dizziness Drowsiness, Central Nervous System depression
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician	Treat symptomatically
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Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Special Protective Equipment for Fire-Fighters

As in any fire, wear self-contained breathing apparatus and full protective gear

Flash Point	12.8°C (55°F) (Ethanol)
Auto-Ignition Temperature	400°C (752°F) (Ethanol)

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Suitable Extinguishing Media

Alcohol resistant foam, Dry
Chemical, Carbon Dioxide (CO₂),
Water spray

Unsuitable Extinguishing Media

No information

Specific Hazards During Fire Fighting or water

Do not allow run-off from firefighting to enter drains
courses.

Special Protective Equipment for Fire-Fighters firefighting if

Wear self-contained breathing apparatus for
necessary

Further Information

Collect contaminated fire
extinguishing water separately.
This must not be discharged into
drains. Fire residues and
contaminated fire extinguishing
water must be disposed of in
accordance with local regulations.
Use a water spray to cool fully
closed containers as necessary.

Fire and Explosion Protection incandescent material.

Do not spray on open flame or any other

Keep away from open flames, hot
surfaces and sources of ignition

Hazardous Decomposition Products Formed Under Fire Conditions

Carbon oxides

Section 6: Accidental Release measures

Personal Precautions, Protective Equipment and Emergency Procedures

Remove all sources of ignition. See Section 12 for additional Ecological Information

Environmental Precautions

Prevent further leakage or spillage if safe to do so Prevent product from entering drains

Methods and Materials for Containment and Clean Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

Section 7: Handling and Storage

Precautions for Safe Handling

Ensure adequate ventilation Keep away from open flames, hot surfaces and sources of ignition Take
precautionary measures against static discharges To avoid ignition of vapors by static electricity
discharge, all metal parts of the equipment must be grounded.

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Conditions for Safe Storage, Including Any Incompatibilities

Keep tightly closed in a dry and cool place Keep in properly labeled containers Keep away from heat and sources of ignition Keep away from oxidizing agents, strongly acid or alkaline materials and amines.

Section 8: Exposure Controls/ Personal Protection

Control Parameters

Chemical Name	NIOSH REL	OSHA PEL	NIOSH IDLH
Ethanol	1000 ppm (TWA) 1900 mg/m3	1000 ppm (TWA) 1900 mg/m3	3300 ppm
Glycerin	Not Established	Not Established	Not Established

NIOSH IDLH: Immediately Dangerous to Life or Health

Exposure Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye Protection approved under

Tightly fitting safety goggles or safety glasses with side shields, tested and
NIOSH or EN166 (EU)

Hand Protection glove for each

Always handle chemicals with protective gloves. The ability of a specific
application should be discussed with the providers of the protective gloves

Skin and Body Protection

Wear impervious clothing. Wear antistatic footwear. Wear fire/flammable
resistant/retardant clothing. Chemically impervious gloves

Respiratory Protection purifying

Use with adequate mechanical ventilation. Where risk assessment shows air
respirators are appropriate use a full-face respirator with multi-
purpose combination filters (US) or type ABEK (EN 14387)

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.
When using do NOT eat, drink, or smoke. Wash hands before breaks and at
the end of the workday.

Environmental Exposure Controls

The product should not be allowed to enter drains, water courses, or the
soil.

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Section 9: Physical and Chemical Properties

Note: Physical Data for Ethanol

Appearance (Physical State, Color, etc.):	Clear Colorless Liquid
Odor:	Alcohol like
Odor Threshold:	No Data Available
pH:	No Data Available
Freezing Point:	-114°C (173°F)
Initial Boiling Point and Boiling Range:	78°C (172.4°F)
Flash Point:	12.8°C (55°F)
Evaporation Rate:	No Data Available
Flammability (Solid, Gas, Liquid):	Liquid
Upper/Lower Flammability Limits:	Lower limit 3.3 vol%, Upper limit 19 vol%
Auto-Ignition Temperature	400°C (752.0°F)
Vapor Pressure:	44 mm/Hg @20°C (68°F)
Density:	0.79 g/mL at 20°C (68°F)
Water Solubility:	Soluble in Water
Partition Coefficient:	-0.3 Log Pow
Viscosity (Kinematic) :	No Data Available
Relative Vapor Density	1.59 (Air=1.0)

Section 10: Stability and Reactivity:

Stability and Reactivity

Conditions to Avoid	Heat, flames, sparks, static electricity
Materials to Avoid	May react with strong oxidizing agents, strong acids, strongly alkaline materials
Possibility of Hazardous Reactions	Ethanol vapors form explosive mixtures with air.
Other Data	This material is considered stable under normal ambient temperatures and atmospheric pressure. Heating causes a rise in pressure, risk of bursting and explosion.

Section 11: Toxicological Information

Information on Toxicological Effects

<u>Acute Toxicity</u>	0% of the mixture consists of ingredient(s) of unknown toxicity.
Inhalation	Harmful by inhalation May cause irritation of respiratory tract May cause drowsiness or dizziness
Eye Contact	Irritating to eyes
Skin Contact	Irritating to skin.
Ingestion	May be harmful if swallowed.

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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7060 mg/kg (Rat)	No Data	20000 ppm – 10h (Rat)
Glycerin	12600 mg/kg (Rat)	>10000 mg/kg (Rabbit)	

Chronic Toxicity

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen.

Chemical	OSHA	IARC	ACGIH	NTP
Ethanol	No	No	No Data	No
Glycerin	No	No	No	No

Note on Ethanol: Evidence of Animal Carcinogenicity – Mouse Oral Equivocal tumorigenic agent by RTECS criteria. Liver tumors, Blood lymphomas including Hodgkin's disease.

Sensitization

No information available

Target Organ Effects

Central Nervous System, Eyes, Respiratory System, Skin, Heart, Liver

Section 12: Ecological Information

Toxicity

Ecotoxicity Effects Components of this product have been identified as having potential environmental concerns.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other
Ethanol		11000 mg/L: 96 h Pimephales promelas	3720 – 20700 mg/L: 48 h Daphnia magna
Glycerin		68100 mg/L: 96 h	

Persistence and Degradability

No information available

Bioaccumulative Potential

Chemical Name	log Pow
Ethanol	No Data
Glycerin	No Data

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

No information available

Other Adverse Effects

No Information available.

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Section 13: Disposal Considerations

Disposal Considerations

The information in this SDS pertains only to the product as shipped. Use material for its intended purpose, or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by the US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product or the soil.

This product should not be allowed to enter drains, water courses

Do not contaminate ponds, waterways or ditches with chemical or used containers. Send to a licensed waste management company.

Contaminated Packaging re-use

Empty remaining contents. Dispose of as unused product. Do not empty containers. Do not burn, or use a cutting torch on an empty drum.

Section 14: Transportation Information

Proper Shipping Name: Ethanol Solutions
UN # 1170
Class 3
Packing Group: II

Note:
*Exemptions apply for small
pack sizes*

Section 15: Regulatory Information

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values %
Ethanol	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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CERCLA

This material, as supplied, does NOT contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethanol	X	X	X		X

Section 16: Other Information

Complies with EC no. 1907/2006

Date of Issue: 02/26/2018

Date of Revision: 12/31/1024R

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End of Safety Data Sheet