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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : **6677**
Product code : A916677

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Alchemix, a Nitro Química Company
2300 West Point Ave.
Atlanta, 30337 - USA
T 404-761-0604 - F 404-559-8892
www.alchemix.com

1.4. Emergency telephone number

Emergency number : CHEMTREC, U.S. : +1-800-424-9300 International: +1-703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids Category 2
Serious eye damage/eye irritation Category 2
Specific target organ toxicity (single exposure) Category 3

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Highly flammable liquid and vapor
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/... equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash hands, forearms and face thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves/protective clothing/eye protection/face protection
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If inhaled: Remove person to fresh air and keep comfortable for breathing
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Call a poison center/doctor/... if you feel unwell
If eye irritation persists: Get medical advice/attention
In case of fire: Use media other than water to extinguish
Store in a well-ventilated place. Keep container tightly closed
Store in a well-ventilated place. Keep cool

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Store locked up

Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Ethyl Alcohol	(CAS-No.) 64-17-5	30 - 60	Flam. Liq. 2, H225
Isopropyl Alcohol	(CAS-No.) 67-63-0	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Propyl Acetate	(CAS-No.) 109-60-4	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: 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/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor.
Reactivity	: Highly flammable liquid and vapor.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopropyl Alcohol (67-63-0)

ACGIH TLV (United States, 4/2014).

STEL: 400 ppm 15 minutes.

TWA: 200 ppm 8 hours.

NIOSH REL (United States, 10/2013).

STEL: 1225 mg/m³ 15 minutes.

STEL: 500 ppm 15 minutes.

TWA: 980 mg/m³ 10 hours.

TWA: 400 ppm 10 hours.

OSHA PEL (United States, 2/2013).

TWA: 980 mg/m³ 8 hours.

TWA: 400 ppm 8 hours

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Propyl Acetate (109-60-4)

ACGIH TLV (United States, 4/2014).

STEL: 200 ppm 15 minutes.

TWA: 150 ppm 8 hours.

NIOSH REL (United States, 10/2013).

STEL: 950 mg/m³ 15 minutes.

STEL: 200 ppm 15 minutes.

TWA: 710 mg/m³ 10 hours.

TWA: 150 ppm 10 hours.

OSHA PEL (United States, 2/2013).

TWA: 710 mg/m³ 8 hours.

TWA: 150 ppm 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 150 ppm 8 hours.

TWA: 710 mg/m³ 8 hours.

STEL: 200 ppm 15 minutes.

STEL: 950 mg/m³ 15 minutes

Ethyl Alcohol (64-17-5)

ACGIH TLV (United States, 4/2014).

STEL: 1000 ppm 15 minutes.

NIOSH REL (United States, 10/2013).

TWA: 1900 mg/m³ 10 hours.

TWA: 1000 ppm 10 hours.

OSHA PEL (United States, 2/2013).

TWA: 1900 mg/m³ 8 hours.

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.
Color : Incolor

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Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 82,22°C (180°F)
Flash point	: Closed cup 11,66°C (53°F) [Tagliabue]
Relative evaporation rate (butyl acetate=1)	: <1 (Ether = 1)
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No >1 [Air = 1]
Relative density	: 0.9877
Solubility	: Slightly soluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Lower: 1.7% Upper: 21%
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Isopropyl Alcohol (67-63-0)	
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	73 mg/l/4h
ATE US (dermal)	12870 mg/kg body weight
ATE US (vapors)	73 mg/l/4h
ATE US (dust, mist)	73 mg/l/4h

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Propyl Acetate (109-60-4)	
LD50 oral rat	9370 mg/kg
LD50 dermal rabbit	> 17700 mg/kg
ATE US (oral)	9370 mg/kg body weight

Ethyl Alcohol (64-17-5)	
LD50 oral rat	> 7060 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.

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IARC group	3 - Not classifiable

Isopropyl Alcohol (67-63-0)	
IARC group	3 - Not classifiable

Ethyl Alcohol (64-17-5)	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure	: Not classified
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Aspiration hazard	: Not classified
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Symptoms/effects	: May cause drowsiness or dizziness.
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Symptoms/effects after eye contact	: Eye irritation.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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Isopropyl Alcohol (67-63-0)	
LC50 fish 2	9640 mg/l (LC50; OCDE 203; 96 h; Pimephales promelas;)
EC50 Daphnia 2	13299 mg/l (EC50; Outro; 48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus)

Propyl Acetate (109-60-4)	
LC50 fish 1	56 - 64 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	318 mg/l (EC50; 24 h)
Threshold limit algae 2	26 mg/l (EC0; 168 h)

Ethyl Alcohol (64-17-5)	
EC50 Daphnia 1	9300 mg/l (EC50; 48 h)
LC50 fish 2	13 mg/l (LC50; 96 h)

12.2. Persistence and degradability

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Isopropyl Alcohol (67-63-0)	
Persistence and degradability	Easily biodegradable in water.
Biochemical oxygen demand (BOD)	1.19 g O ₂ /g substance
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance
ThOD	2.4 g O ₂ /g substance
Propyl Acetate (109-60-4)	
Persistence and degradability	Easily biodegradable in water.
ThOD	2.04 g O ₂ /g substance
BOD (% of ThOD)	0.62
Ethyl Alcohol (64-17-5) Easily biodegradable in water.	
Persistence and degradability	Easily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 - 0.97 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43

12.3. Bioaccumulative potential

Isopropyl Alcohol (67-63-0)	
Log Pow	0.05
Bioaccumulative potential	(Log Kow < 4)
Propyl Acetate (109-60-4)	
BCF fish 1	2.4 – 5.1 BCF
Log Pow	1.23 - 1.60
Bioaccumulative potential	(FBC < 500)
Ethyl Alcohol (64-17-5)	
Log Pow	-0.32
Bioaccumulative potential	Not applicable.

12.4. Mobility in soil

Isopropyl Alcohol (67-63-0)	
Surface tension	0.021 N/m 25°C
Propyl Acetate (109-60-4)	
Surface tension	0.024 N/m 20°C

12.5. Other adverse effects

Effects on Global warming : No known effects from this product.
 GWPmix comment : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Additional information : Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

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In accordance with DOT

Transport document description :

UN-No.(DOT) **2059** :

Proper Shipping Name (DOT) **NITROCELLULOSE SOLUTION FLAMMABLE** :

Class (DOT) **3** :

Packing group (DOT) **II** :

Hazard labels (DOT) :



DOT Packaging Non Bulk (49 CFR 173.xxx) Not Available :

DOT Packaging Bulk (49 CFR 173.xxx) Not Available :

DOT Special Provisions (49 CFR 172.102) Not Available :

DOT Packaging Exceptions (49 CFR 173.xxx) Not Available :

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) Not Available :

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) Not Available :

DOT Vessel Stowage Location Not Available :

Emergency Response Guide (ERG) Number Not Available :

Other information Not Available :

Transportation of Dangerous Goods

UN-No. **2059**

Proper Shipping Name **NITROCELLULOSE SOLUTION FLAMMABLE**

Class **3**

Packing group **II**

Hazard labels



Transport by sea

UN-No. (IMDG) **2059**

Proper Shipping Name (IMDG) **NITROCELLULOSE SOLUTION FLAMMABLE**

Class (IMDG) **3**

Packing group (IMDG) **II**

Hazard labels



Air transport

UN-No. (IATA) **2059**

Proper Shipping Name (IATA) **NITROCELLULOSE SOLUTION FLAMMABLE**

Class (IATA) **3**

Packing group (IATA) **II**

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Hazard labels



SECTION 15: Regulatory information

15.1. US Federal regulations

Isopropyl Alcohol (67-63-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313
Propyl Acetate (109-60-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Ethyl Alcohol (64-17-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Isopropyl Alcohol (67-63-0)
Listed on the Canadian DSL (Domestic Substances List)
Propyl Acetate (109-60-4)
Listed on the Canadian DSL (Domestic Substances List)
Ethyl Alcohol (64-17-5)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product