

Safety Data Sheet

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

Date of issue: 7 March 2017 Version: 1.0

SECTION 1: Identification

Identification

Product form : Mixtures

Product name : FL 500 - FoamLok Polyol

Recommended use and restrictions on use

Use of the substance/mixture : A component for the production of spray insulation foam

Supplier

Lapolla Industries, Inc.

15402 Vantage Parkway East, Ste. 322

Houston, Texas 77032

Tel: +1 281 219 4100, (877) 636-2648

Email: sds@lapolla.com

Emergency telephone number

Emergency number : CARECHEM (866) 928-0789

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification

H302 Harmful if swallowed Acute toxicity (oral), Category 4

Skin corrosion/irritation, Category 1B H314 Causes severe skin burns and eye damage

Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage

Full text of H statements: see section 16

GHS Label elements, including precautionary statements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P260 - Do not breathe fume, mist, spray, vapors

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear respiratory protection, protective clothing, protective gloves, eye protection

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a doctor, a POISON CENTER

P330 - Rinse mouth

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
2-Propanol, 1-chloro-, phosphate (3:1)	(CAS-No.) 13674-84-5	10 - 25	Acute Tox. 4 (Oral), H302
Poly(oxy-1,2-ethanediyl), .alpha(4-nonylphenyl)omegahydroxy-, branched	(CAS-No.) 127087-87-0	10 - 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318
1-Propanol, 2,2-dimethyl-, tribromo derivative	(CAS-No.) 36483-57-5	1 - 15	Eye Irrit. 2A, H319
Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]-	(CAS-No.) 2212-32-0	1 - 10	Skin Irrit. 2, H315 Eye Dam. 1, H318
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	(CAS-No.) 6711-48-4	1 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:vapor), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318

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 after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest

provide artificial respiration. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Remove contaminated clothing immediately. Wash skin thoroughly with mild soap and water.

Seek medical attention immediately.

First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes. Contact lenses should be removed.

Immediately get medical attention.

First-aid measures after ingestion : Rinse mouth immediately and drink plenty of water. Induce vomiting. Never give anything by

mouth to an unconscious person. If unconscious, place in the recovery position and seek

medical advice. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation : May be harmful if inhaled. Prolonged exposure to liquid may cause a mild irritation.

Symptoms/effects after skin contact : Causes severe skin burns.
Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Harmful if swallowed. May cause stomach pain or discomfort and gastrointestinal disturbance.

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. Dry extinguishing powder. Carbon dioxide. Foam.

Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

Fire hazard : Minimal fire hazard. Combustion may produce irritating fumes and carbon oxides.

Explosion hazard : None known.

Reactivity : Stable under normal conditions of use.

5.3. Special protective equipment and precautions for fire-fighters

Protective equipment for firefighters : Wear a self contained breathing apparatus.

Other information : Prevent entry to sewers and public waters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing. Refer to chapter 8.

6.1.2. For emergency responders

No additional information available

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6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Take up liquid spill into inert absorbent material. Sweep or shovel spills into appropriate

container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Avoid mixing with air or use for any purpose above atmospheric pressure. If possible use nitrogen (under pressure) to carry out transfers. No special fire protection measures are necessary.

Hygiene measures

Wash contaminated clothing prior to re-use. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of direct sunlight. Store in original container. Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Do not freeze. Receptacle under pressure.

Incompatible materials

: Strong oxidizing agents. Strong acid. Strong bases.

Storage temperature

: 21 - 26 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)

Not applicable

Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]- (2212-32-0)

Not applicable

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Not applicable

1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- (6711-48-4)

Not applicable

1-Propanol, 2,2-dimethyl-, tribromo derivative (36483-57-5)

Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls

 Provide adequate ventilation. Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Impervious gloves e.g. PVC, nitrile rubber, butyl rubber

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Long sleeved protective clothing. Chemical resistant apron

Respiratory protection:

NIOSH/MSHA approved air purifying respirator should be used if operating conditions produce airborne concentrations that exceed exposure limits for any individual components. If conditions immediately dangerous to life or health exist, use NIOSH/MSHA self contained breathing apparatus (SCBA).

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Brown
Odor : Amine-like
Odor threshold : No data available

pH : > 7

: No data available Melting point Freezing point : No data available Boiling point : No data available Flash point : > 200 °C (closed cup) Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available

Relative density : 1.15 - 1.18 g/cm³ at 20°C
Solubility : Water: 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 : 800 - 1000 mPa.s @ 23 °C

Explosive limits : No data available
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

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Temperatures > 26 °C. Protect from moisture. Direct sunlight. Excessive heat.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Combustion may produce irritating fumes and carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure : Ingestion; Inhalation; Skin and eyes contact

Acute toxicity : Oral: Harmful if swallowed.

FL	500) — t	-oa	mL	oĸ	POI	yoı

ATE US (oral) 1920.240 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: > 7

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Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified : Not classified

Specific target organ toxicity (repeated exposure)

Aspiration hazard : Not classified

Symptoms/effects after inhalation : May be harmful if inhaled. Prolonged exposure to liquid may cause a mild irritation.

Symptoms/effects after skin contact Causes severe skin burns. Symptoms/effects after eye contact Causes serious eye damage.

Symptoms/effects after ingestion Harmful if swallowed. May cause stomach pain or discomfort. Can occur: Gastrointestinal

disturbance.

SECTION 12: Ecological information

Toxicity

Ecology - general

: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability 12.2.

No additional information available

Bioaccumulative potential

No additional information available

12.4. **Mobility in soil**

No additional information available

Other adverse effects

Effect on global warming : No known effects from this product. **GWPmix** comment : No known effects from this product.

SECTION 13: Disposal considerations

Disposal methods 13.1.

Waste treatment methods : Dispose of this material and its container to hazardous or special waste collection point.

: Dispose in a safe manner in accordance with local/national regulations. Product/Packaging disposal recommendations

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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15.2. International regulations

CANADA

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)

Listed on the Canadian DSL (Domestic Substances List)

Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]- (2212-32-0)

Listed on the Canadian DSL (Domestic Substances List)

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- (6711-48-4)

Listed on the Canadian DSL (Domestic Substances List)

1-Propanol, 2,2-dimethyl-, tribromo derivative (36483-57-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)

Listed on the EU NLP (No Longer Polymers) inventory

Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]- (2212-32-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- (6711-48-4)

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1-Propanol, 2,2-dimethyl-, tribromo derivative (36483-57-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (127087-87-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]- (2212-32-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

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1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- (6711-48-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

1-Propanol, 2,2-dimethyl-, tribromo derivative (36483-57-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Date of Issue

: 7 March 2017

Other information

: The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

Full text of H-statements:

Harmful if swallowed
Harmful in contact with skin
Causes severe skin burns and eye damage
Causes skin irritation
Causes serious eye damage
Causes serious eye irritation
Toxic if inhaled
Harmful if inhaled

Abbreviations and acronyms:

PVC	Polyvinyl chloride)

SDS US (GHS HazCom 2012)

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