

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name. : FL 500 – FoamLok Polyol
 Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use
 Use of the substance/preparation : A component for the production of spray insulation foam

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Lapolla Industries, Inc.
 15402 Vantage Parkway East, Ste. 322
 77032 Houston, Texas
 T +1 281 219 4100

1.4. Emergency telephone number

CareChem 24 Emergency Number(s) : +44 (0) 1235 239 670 (Europe, Americas, Middle East, Africa, Isreal)
 +44 (0) 1235 239 671 (Middle East/Africa) Arabic
 +65 3158 1074 (East/South East Asia)
 +86 10 5100 3039 (China and Taiwan)
 001866 928 0789 (United States, Canada, Columbia, Guam, Mexico)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315
 Eye Dam. 1 H318

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22
 Xi; R36

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

To avoid risks to human health and the environment, comply with the instructions for use.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) : Danger

Hazardous ingredients : Poly(oxypropylene) triol, Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched, Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]-, 2-Propanol, 1-chloro-, phosphate (3:1)

Hazard statements (CLP) : H315 - Causes skin irritation
 H318 - Causes serious eye damage

Precautionary statements (CLP) : P264 - Wash Skin. thoroughly after handling.
 P280 - Wear eye protection, protective clothing, protective gloves.
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 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 POISON CENTER or doctor/physician
 P332+P313 - If skin irritation occurs: Get medical advice/attention

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according to Regulation (EC) No. 453/2010

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
2-Propanol, 1-chloro-, phosphate (3:1)	(CAS No.) 13674-84-5 (EC no) 237-158-7	25	Xn; R22
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	(CAS No.) 127087-87-0 (EC no) 500-315-8	15	Xn; R22 Xi; R36/38
Poly(oxypropylene) triol	(CAS No.) 25791-96-2 (EC no) 500-044-5	10	Xi; R36
Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]-	(CAS No.) 2212-32-0 (EC no) 218-658-4	4	Xi; R41 Xi; R38

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Propanol, 1-chloro-, phosphate (3:1)	(CAS No.) 13674-84-5 (EC no) 237-158-7	25	Acute Tox. 4 (Oral), H302
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	(CAS No.) 127087-87-0 (EC no) 500-315-8	15	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Poly(oxypropylene) triol	(CAS No.) 25791-96-2 (EC no) 500-044-5	10	Eye Irrit. 2, H319
Ethanol, 2-[[2-(dimethylamino)ethyl]methylamino]-	(CAS No.) 2212-32-0 (EC no) 218-658-4	4	Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
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. Seek medical advice.
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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract.
Symptoms/injuries after ingestion	: Can occur: gastrointestinal disturbance.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	: Water. Dry extinguishing powder. Carbon dioxide. Foam.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protective equipment for firefighters	: Wear a self contained breathing apparatus.
Other information	: Prevent entry to sewers and public waters.

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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

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

6.1.2. For emergency responders

No additional information available

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

No additional information available

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage condition(s) : 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.

Storage temperature : 21 - 26 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Provide local exhaust or general room ventilation.

Personal protective equipment : Protective goggles. Insufficient ventilation: wear respiratory protection. Gloves. Protective clothing.



Hand protection : Chemical resistant protective gloves (EN 374) suitable with prolonged, direct contact.

Eye protection : tightly fitting safety goggles.

Skin and body protection : protective clothing.

Respiratory protection : Full face piece respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : brown.

odour : Amine-like.

Odour threshold : No data available

pH : > 7

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Solidification point : No data available

Boiling point : No data available

Flash point : > 200 °C (Closed cup)

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Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.15 - 1.18 g/cm ³ @ 25°C
Solubility	: Slightly soluble in: Water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 800 - 1000 mPa.s @ 23 °C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on additivity formula, the classification criteria are not met)
May cause gastrointestinal irritation, nausea, vomiting and diarrhoea

Poly(oxypropylene) triol (25791-96-2)	
LD50 oral rat	> 64 ml/kg
LD50 dermal rabbit	> 20 ml/kg

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
LD50 oral rat	930 - 1550 mg/kg
LD50 dermal rat	> 5000 mg/kg
LD50 dermal rabbit	1230 mg/kg
LC50 inhalation rat (mg/l)	> 17.8 mg/l (Exposure time: 1 h)

Skin corrosion/irritation	: Causes skin irritation. May cause irritation to the eyes, nose, throat, and skin. pH: > 7
Serious eye damage/irritation	: Causes serious eye damage. pH: > 7
Respiratory or skin sensitisation	: Not classified (none of the components is classified for respiratory or skin sensitization)
Germ cell mutagenicity	: Not classified (No classification for mutagenicity as none of the components is classified for mutagenicity)
Carcinogenicity	: Not classified (No classification for carcinogenicity as none of the components is classified for carcinogenicity)
Reproductive toxicity	: Not classified (No classification for reproduction as none of the components is toxic for reproduction)

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Specific target organ toxicity (single exposure)	: Not classified (None of the components shows specific effects in acute toxicity studies requiring classification for Specific Target Organ Systemic Toxicity single exposure)
Specific target organ toxicity (repeated exposure)	: Not classified (None of the components shows specific effects in acute toxicity studies requiring classification for Specific Target Organ Systemic Toxicity repeated exposure)
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

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

LC50 fishes 1	56.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	63 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	45 mg/l (Exposure time: 72 h - Species: Desmodemus subspicatus)
LC50 fishes 2	180 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
EC50 other aquatic organisms 2	4 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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

BCF fishes 1	1.9 - 4.6
Log Pow	2.59

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Consult the appropriate authorities about waste disposal. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.
Waste treatment methods	: Dispose of this material and its container to hazardous or special waste collection point.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not a dangerous good in sense of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Not applicable

14.6.2. Transport by sea

Not applicable

14.6.3. Air transport

Not applicable

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No Annex XVII restrictions

Contains no REACH candidate substance

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Directive 67/548/EEC as amended. Directive 1999/45/EC as amended. Regulation (EC) 1272/2008 as amended. Regulation (EC) 1907/2006 as amended.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Indication of changes : All requirements according to Regulation (EC) No 453/2010 were applied.

Sources of Key data : Regulation (EC) No 1272/2008 Annex VI. Data sources: SDS - Safety Data Sheet.

Abbreviations and acronyms : ATE - acute toxicity estimate. CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EC - European Community. EEC - European Economic Community. PBT - Persistent, Bioaccumulative and Toxic substance. PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. SDS - Safety Data Sheet . TLV- Threshold Limit Value. vPvB - Very Persistent and Very Bioaccumulative.

Training advice : See directive 1991/383/EC.

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 R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Skin Irrit. 2	skin corrosion/irritation Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
R22	Harmful if swallowed.
R36	Irritating to eyes.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

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.