

Accella Polyurethane Systems

Safety Data Sheet

1. Identification of Substance:

Product Name: Foamsulate 50 E Plus

Supplier Identification:

Accella Polyurethane Systems

Telephone:

(306) 721-1339

Address:

190 Hodsman Road
Regina, SK, Canada S4N 5X4

24-Hr. Emergency Phone Number:

CHEMTREC (800) 424-9300
INTERNATIONAL: +1-(703) 527-3887

Product Use: Polyurethane polyol component

2. Hazards Identification:

GHS Ratings:

Oral Toxicity	Acute Tox. 4	Oral>300+<=2000mg/kg
Dermal Toxicity	Acute Tox. 4	Dermal>1000+<=2000mg/kg
Skin corrosive	1C	Destruction of dermal tissue: Exposure < 4 hours Observation < 14 days, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitizer	1	Skin sensitizer

GHS Hazards

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

GHS Precautions

P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER in case of overexposure.
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P322	Specific measures: see Section 4 First Aid Measures
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water

P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

Signal Word: Danger



Acute Toxicity:

Eyes: Corrosive to eyes.

Skin: Corrosive to skin.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed. Consult physician.

Chronic Effects: Possible harmful target organ effects.

3. Composition/Data on Components:

Chemical Name	CAS number	Weight Concentration %
2-Propanol, 1-chloro-, phosphate (3:1)	13674-84-5	30.00% - 40.00%
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	6711-48-4	5.00% - 10.00%
Poly(oxypropylene) triol	25791-96-2	5.00% - 10.00%
2-(Dimethylamino)ethanol	108-01-0	1.00% - 5.00%

4. First Aid Measures:

Inhalation: If inhaled and symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.

After Eye Contact: Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing. If irritation persists contact physician

After Skin Contact: Clean affected area with soap and plenty of water.

After Swallowing: Consult physician.

Notes to Physician: Treat symptomatically.

5. Fire Fighting Measures:

Flash Point: 223 C (433 F)

LEL: N/A

UEL: N/A

Upper and Lower Explosive Limits listed if known.

Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical.

Information about Protection against Explosions and Fires: Keep away from flames and sources of heat. Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas, hydrogen fluoride

Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures:

Person-Related Safety Precautions: Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area. Avoid contact with skin and eyes.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

7. Handling and Storage:

Information for Safe Handling: Avoid contact with eyes, skin, or inhalation.

Storage Requirements: Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.

Regulatory Requirements: Obey all local, state, and federal requirements.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	Not Established	Not Established	Not Established
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- 6711-48-4	Not Established	Not Established	Not Established
Poly(oxypropylene) triol 25791-96-2	Not Established	Not Established	Not Established

2-(Dimethylamino)ethanol 108-01-0	Not Established	Not Established	Not Established

Engineering Controls: No specific measures required if proper PPE precautions are followed.

General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.

Respiratory protection: None required if work area is properly ventilated.

Hand Protection: Protective chemical resistant gloves.

Eye Protection: Safety glasses.

Body Protection: Protective work clothing. Launder separately.

9. Physical and Chemical Properties:

Physical properties listed where known.

<p>Appearance: Off white liquid</p> <p>Vapor Pressure: N/A</p> <p>Vapor Density: N/A</p> <p>Specific Gravity: 1.28</p> <p>Freezing point: N/A</p> <p>Boiling range: 100 - 342°C</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: 295°C</p>	<p>Odor: Mild amine odor</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 433°F, 223°C</p> <p>Flammability: N/A</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Decomposition temperature: N/A</p>
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10. Stability and Reactivity:

Chemical Incompatible Materials: Avoid contact with isocyanates and strong oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas, hydrogen fluoride

11. Toxicological Information:

Mixture Toxicity

Oral Toxicity LD50: 1,265mg/kg

Dermal Toxicity LD50: 1,930mg/kg

Inhalation Toxicity LC50: 14mg/L

Component Toxicity

13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1) Oral LD50: 500 mg/kg (Rat) Dermal LD50: 1,230 mg/kg (Rabbit) Inhalation LC50: 5 mg/L (Rat)
6711-48-4	1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl- Oral LD50: 1,250 mg/kg (Rat) Dermal LD50: 370 mg/kg (Rabbit)
108-01-0	2-(Dimethylamino)ethanol Oral LD50: 1,803 mg/kg (Rat) Dermal LD50: 3,000 mg/kg (Rabbit) Inhalation LC50: 1,641 ppm
107-13-1	Acrylonitrile Oral LD50: 193 mg/kg (Rat) Dermal LD50: 63 mg/kg (Rabbit) Inhalation LC50: 0 mg/L (Rat)

Individual Toxicity Values Listed if Known

Acute Toxicity:

Eyes: Corrosive to eyes.

Skin: Corrosive to skin.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed. Consult physician.

Chronic Effects: Possible harmful target organ effects

Routes of Entry: Ingestion, skin contact, eye contact.

Target Organs: Skin, eyes, digestive tract.

Chemicals with Known or Possible Carcinogenic Effects:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
100-42-5	Styrene	0.0 to 0.1%	Styrene: IARC: Possible human carcinogen OSHA: listed
107-13-1	Acrylonitrile	0.0 to 0.1%	Acrylonitrile: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed EU REACH: Present (D)

12. Ecological Information:

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13. Individual component ecotoxicity listed if known.

Component Ecotoxicity

2-Propanol, 1-chloro-, phosphate (3:1)	96 Hr LC50 Brachydanio rerio: 56.2 mg/L [static]; 96 Hr LC50 Pimephales promelas: 98 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 30 mg/L [static] 48 Hr EC50 Daphnia magna: 63 mg/L 72 Hr EC50 Desmodesmus subspicatus: 45 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 4 mg/L
1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-	3 Hr EC50 Bacteria >1000 mg/l [Static] 48 Hr EC50 Daphnia 50.3 mg/l [Static] 72 Hr ErC50 (growth rate) Algae 7.9 mg/l [Static] 96 Hr LC50 Fish 21.4 mg/l [Static]
2-(Dimethylamino)ethanol	96 Hr LC50 Pimephales promelas: 81 mg/L [static] 48 Hr EC50 Daphnia magna: 98.77 mg/L 72 Hr EC50 Desmodesmus subspicatus: 35 mg/L

Styrene	96 Hr LC50 Pimephales promelas: 3.24 - 4.99 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 19.03 - 33.53 mg/L [static]; 96 Hr LC50 Pimephales promelas: 6.75 - 14.5 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 58.75 - 95.32 mg/L [static] 48 Hr EC50 Daphnia magna: 3.3 - 7.4 mg/L 72 Hr EC50 Pseudokirchneriella subcapitata: 1.4 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.72 mg/L; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.46 - 4.3 mg/L [static]; 96 Hr EC50 Pseudokirchneriella subcapitata: 0.15 - 3.2 mg/L [static]
Acrylonitrile	96 Hr LC50 Pimephales promelas: 6.7 - 15 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 8.0 - 12.0 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 33.5 mg/L [static]; 96 Hr LC50 Brachydanio rerio: 25 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 24 mg/L; 96 Hr LC50 Cyprinus carpio: 18.07 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 8.7 - 10 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 28 - 39 mg/L [static] 48 Hr EC50 Daphnia magna: 7.38 mg/L

13. Disposal Considerations:

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

Empty Container Precautions: Recondition or dispose of empty container in accordance with governmental regulations. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal.

14. Transport Information:

Material ships as follows:

<u>Agency</u>	<u>Proper Shipping Name</u>		<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Amines, Liquid, Corrosive, N.O.S. (Contains Tetramethyliminobispropylamine)	(Contains	2735	III	8
ICAO/IAT	Amines, Liquid, Corrosive, N.O.S. (Contains Tetramethyliminobispropylamine)	(Contains	2735	III	8
IMDG	Amines, Liquid, Corrosive, N.O.S. (Contains Tetramethyliminobispropylamine)	(Contains	2735	III	8

15. Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard

**California Proposition 65
(Safe Drinking Water and Toxic Enforcement Act of 1986)**

This product contains no substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute unless otherwise listed:

Warning: This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm:

Acrylonitrile 107-13-1 1 PPM CARC

Styrene 100-42-5 6 PPM CARC

Massachusetts Right To Know List:

2-(Dimethylamino)ethanol 108-01-0 1 to 5 %

New Jersey Right To Know List:

2-(Dimethylamino)ethanol 108-01-0 1 to 5 %

Pennsylvania Right To Know List:

2-(Dimethylamino)ethanol 108-01-0 1 to 5 %

SARA 302 Extremely Hazardous Substances:

- None

Chemicals subject to SARA 313 Reporting:

- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
Canada	Canada DSL	Yes
US	Toxic Substances Control Act	Yes

16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Accella Polyurethane Systems. The data on these sheets relates only to the specific material designated herein. Accella Polyurethane Systems assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.

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