

SAFETY DATA SHEET



1. IDENTIFICATION

Product Name: Applegate R Foam Foaming Catalyst Concentrate

Recommended Use of the Chemical: As a component part in the manufacture of Foam-in-Place Insulation

Company Identification:

Applegate R Foam LLC
3335 Lincoln Road, M-40
Hamilton, MI 49419
United States



Customer Information Number: 855-949-2775 / info@applegatefoam.com

24-Hour Emergency Telephone Number: Chemtrec / 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification: Acute Toxicity, Oral (Category 4)
Acute Toxicity, Inhalation (Category 1)
Acute Toxicity, Dermal (Category 5)
Skin Corrosion (Category 1B)
Serious Eye Damage (Category 1)
Acute Aquatic Toxicity (Category 2)
Chronic Aquatic Toxicity (Category 2)

Hazard Pictogram/s:



Signal Word: Danger

Hazard Statement(s): Harmful if swallowed
May be harmful in contact with skin
Causes severe skin burns and eye damage

Precautionary Statement(s): Do not breathe dust, fumes, gas, mist, vapors, or spray.
Wash skin thoroughly after handling.
Avoid release to environment
Wear protective gloves/appropriate clothing/eye protection.
Call a poison center or doctor/physician if you feel unwell.
If swallowed, rinse mouth. Do not induce vomiting.
If on skin, gently wash with plenty of soap and water.
If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
Store in a closed container.
Dispose of contents/container at an approved waste disposal plant.

Hazards not otherwise classified or not covered by GHS: None

HMIS Identification: Health, Flammability, Reactivity, Contact

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3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Name of Hazardous Component/Composition</u>	<u>CAS Number</u>	<u>% by Weight</u>
Phosphoric acid	7664-38-2	10 - 20%
Dodecyl diphenyl oxide disulfonate, sodium salt	119345-04-9	1 - 10%
Boric acid	10043-35-3	1 - 10%

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for 15 minutes. Seek medical attention immediately.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if irritation develops.

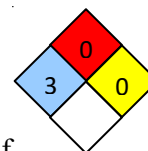
Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation: Move exposed person to fresh air. If breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel and seek medical attention.

5. FIRE FIGHTING MEASURES

National Fire Protection Agency (NFPA)

Suitable extinguishing media: CO₂, water, foam, and dry chemical spray



Special information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full faceplate operated in the pressure demand mode.

Hazardous decomposition products: Oxides of carbon, sulfur, and phosphorus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation and use personal protective equipment.

Environmental precautions: Prevent further leakage or spillage if safe. Do not let product enter drains.

Methods and material for containment and clean up: For minor spills, absorb with inert material such as sand. For large spills collect by pumping into suitably labeled container and do not discharge into drains or water courses.

7. HANDLING AND STORAGE

Precautions for safe handling: Wear the required PPE. Do not ingest, get in eyes, or on skin. Avoid breathing vapor or mist. After handling, always wash hands thoroughly.

Conditions for safe storage, including any incompatibilities: Store in original container protected from physical damage in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 100°F.

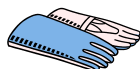
Suitable packaging material: High density polyethylene (HDPE), low density polyethylene (LDPE).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Product</u>	<u>OSHA (TWA)</u>	<u>ACGIH (TWA)</u>
Phosphoric acid	1 mg/m ³	1 mg/m ³
Boric acid	2 mg/m ³	2 mg/m ³

Ventilation System: Local exhaust, general mechanical. Local exhaust ventilation is generally preferred.

Personal Protective Equipment (PPE):



Eyes: Chemical splash goggles or safety glasses.

Protective Gloves: Neoprene or other chemical resistant gloves.

Respiratory: Not normally required. Use with adequate ventilation.

Body: Wear appropriate clothing when working with this material in its undiluted form.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear dark amber liquid
Solubility	Soluble
Odor	Pungent
Odor Threshold	No data available
pH(1%)	2
Flash Point	> 200 F (TCC)
Evaporation Rate	No data available

Autoignition Temperature	No data available
Lower Explosion limit	No data available
Upper Explosion Limit	No data available
Decomposition Temperature	No data available
Partition Coefficient: n-octanol/water	No data available
% Volatiles by Volume	40%
% VOC	None
% HAP	None
Boiling Point	No data available
Freezing Point	< 32F
Vapor Density (Air = 1)	> 1
Vapor Pressure (mm Hg)	No data available
Specific Gravity (@ 25C)	1.27

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazardous decomposition products: Oxides of carbon, sulfur, and phosphorus.

Hazardous polymerization: Will not occur.

Incompatibilities: Metals, metal powder, carbides, chlorates, fuminates, nitrates, picrates, strong oxidizing agents, reducing agents, or combustible organic materials.

Conditions to avoid: Incompatibles.

11. TOXICOLOGICAL INFORMATION

Routes of entry	Ingestion, Absorption
Toxicity data	LD ₅₀ (oral, rat) No data available LC ₅₀ (dermal, rabbit) No data available
Carcinogenicity data	No components have been listed as carcinogenic
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Reproductive effects	No data available
Mutagenicity data	No data available
Teratogenicity Data	No data available

Potential health effects:

Eyes	Highly corrosive. May cause ulceration, bleeding, and tearing, with pain or burning sensations.
Skin	Prolonged contact may cause skin corrosion, burns, or ulcers. Contact with a solution may cause slight irritation with itching.
Inhalation	Inhalation of concentrated mists may cause serious damage to the lining of the nose, throat, and lungs.
Ingestion	Immediate effects of overexposure may include: Burns of the mouth, throat, esophagus and stomach, with severe pain, bleeding, vomiting, diarrhea, and collapse of blood pressure. Damage may appear days after exposure.

12. ECOLOGICAL INFORMATION

Environmental toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative:	No data available
Mobility in soil:	No data available
Other adverse affects:	No data available

13. DISPOSAL CONSIDERATION

Waste information: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

Waste stream: Regulated as a hazardous waste. Corrosive. D002

14. TRANSPORT INFORMATION

DOT shipping status:	ORM-D Consumer Commodity product considered non-regulated and non-hazardous
DOT hazard class:	8
DOT shipping name:	Corrosive liquids, acidic, organic, N.O.S. (Contains phosphoric acid), 8, UN 3265, PG III, ERG# 153
UN number:	3265
NA number:	N/A

15. REGULATORY INFORMATION

S.A.R.A. 311/312: Acute: Yes Chronic: No Reactivity: No Pressure: No Fire: No

S.A.R.A. 313: No component listed under Section 313 above the de minimis limit

S.A.R.A. 302 (EHS): No components listed under Section 302

CERCLA: RQ: 33,333 lb.

T.S.C.A.: All components are listed in the T.S.C.A. inventory

California Prop 65: No components listed under California Prop 65

16. OTHER INFORMATION

Applegate R Foam LLC has provided the information in this SDS in good faith, but we make no representation to its comprehensiveness and/or accuracy. It is the user's responsibility to determine the safety, toxicity, and suitability for his or her own use of the product described. Since the actual use by others is beyond our control, no guarantee, either expressed or implied, is made by Applegate R Foam LLC. Applegate R Foam LLC will not be responsible for damages resulting from the use or reliance upon this information. The user assumes all risk and responsibility.