SAFETY DATA SHEET

1. Product Identification

Algonquin Products Company
770-578-4240
PO Box 87005
Dartmouth, MA 02748
www.algonquinproducts.com

Product Code:	5-108
Product Name:	Armor Plate
Product Use:	Floor Finish & Sealer
Emergency Phone:	CHEMTREC: 800-424-9300

2. Hazard Identification

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s).

Acute effects:
Eye: Direct contact may cause temporary redness or discomfort.
Skin: No significant irritation expected from a single exposure.
Inhalation: No significant irritation expected from a single exposure.

GHS Precautionary Statement(s) – Prevention
P102- Keep out of reach of children
P101- If medical advice is needed, have product container or label at hand.
P103- Read label before use.
P264 - Wash skin and contaminated clothing thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P234 - Keep only in original container.

GHS Precautionary Statement(s) - Storage
Store in a secure manner.
Store in a well-ventilated place.
Keep cool.

GHS Precautionary Statement(s) - Disposal
Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

ECOLOGICAL HAZARDS: Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters. This material has exhibited moderate toxicity to aquatic organisms.
PRECAUTIONARY STATEMENTS: Avoid breathing vapors or mist. Avoid contact with skin, eyes, and clothing. Keep container tightly closed. Wash thoroughly after handling/ Use only with adequate ventilation.

3. Composition / Information on Ingredients

Chemical Name:	CAS Number	% By Weight
DEG Methyl Ether	111-77-3	2-7
2-butoxyethyl phosphate	78-51-3	1-5

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Unless listed immediately above, the product contains no hazardous ingredients as listed on the Massachusetts Hazardous Substance List or under §1910.1200 of Title 29 of the Code of Federal Regulations.

4. First Aid Measures

Eyes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses if present and easy to do. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention if irritation persists.
Skin	Flush skin with plenty of water for while removing any contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure, making sure to wash before reuse. Contact a physician if irritation persists.
Ingestion	Do not induce vomiting. If victim is conscious and alert, give 2-4 cups of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Inhalation	Remove from exposure and move to fresh air immediately and keep comfortable for breathing. If breathing is difficult, give oxygen. Call a doctor or poison control center if symptoms persist. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Call a doctor or poison control immediately.

Notes to Physician: Treat symptomatically and supportively. Consult a doctor and/or the nearest Poison Control Centre for all exposures.

5. Fire Fighting Measures

Conditions of flammability:
Not flammable or combustible.
Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters:
Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous combustion products:
Hazardous decomposition products formed under fire conditions. - Sodium oxides

6. Accidental Release Measures

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8. Eliminate potential sources of ignition. Handling equipment must be bonded and grounded to prevent sparking.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible sorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: U.S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required.

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7. Handling and Storage

General Storage Information: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner, or disposed of properly. DO NOT USE OR STORE near heat, sparks or open flames. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Store between the following temperatures: 45°F - 120°F (7°C - 49°C). Keep out of the reach of children.

8. Exposure Controls / Personal Protection

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
PERSONAL RESPIRATORS (NIOSH Approved): If exposure is anticipated to be greater than applicable exposure limits, wear a NIOSH approved respirator that provides adequate protection from measured concentrations of this material. Use the following elements for air-purifying respirators: Air-Purifying Respirator for Organic Vapors Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
SKIN PROTECTION: Wear chemical resistant protective clothing if contact is imminent.
EYE PROTECTION: Use chemical safety glasses if splashing is possible. Maintain eye wash fountain and quick drench facilities in work area.

9. Physical and Chemical Properties

Appearance	White Liquid
pH	7-8
Volatile (% V.O.C. by volume):	4.58
Flashpoint	>200F
Freezing Point	32F
Vapor Pressure (mm Hg	Not Known
Lower Explosion Limits	Not Determined

Odor	Faint
Specific Gravity	1.03
Solubility In Water	Complete
Melting Point	Not Known
Vapor Density (Air=1):	Not Know
Evaporation Rate (BuAc=1):	Slower Than Water
Upper Explosion Limits	Not Determined

10. Stability & Reactivity

STABILITY: Stable under ordinary conditions of use and storage.
HAZARDOUS DECOMPOSITION PRODUCTS: Not known.
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES: Avoid mixing with other chemicals including metals, oxidizing materials, and acids.
CONDITIONS TO AVOID: Mixing with acid, or incompatible materials may cause splattering and release of large amount of heat (under high concentrations).

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11. Toxicological Information

The information presented is from representative materials with this Chemical Abstract Service (CAS) Registry number. The results vary depending on the size and composition of the test substance. Effects due to processing releases or residual monomer: Possible cross sensitization with other acrylates and methacrylates.

Diethylene glycol monomethyl ether (111-77-3)
Acute Toxicity - Lethal Doses
Rat > 2 GM/M3 1 HOURS
LD50 (Oral) Rat 9.2 G/KG
Guinea Pig 4.2 G/KG
LD50 (Skin) Rabbit 20.2 G/KG
Reproductive Effects
Laboratory test indicate high doses may cause adverse reproductive effects in rats and mice.
Reproductive Effects: Animal studies indicate the potential for reproductive effects in males.
Carcinogenicity: Not listed by IARC, NTP, or OSHA.
Data for Ethanol, 2-butoxy-, phosphate (3:1) (78-51-3)
Acute toxicity
Oral:
Practically nontoxic to slightly toxic. (rat) LD50 = 4,640 - 13,278 mg/kg.
Dermal:
No more than slightly toxic. (rabbit) LD50 > 5,000 mg/kg.
Inhalation:
Practically nontoxic. (rat) 4 h LC0 > 6.4 mg/l. (aerosol)
Skin Irritation:
Slightly irritating. (rabbit) Irritation Index: 2.32. (4 h)
Eye Irritation:
Slightly irritating. (rabbit)
Skin Sensitization:
Not a skin sensitizer. Buehler Test. (guinea pig) No skin allergy was observed
Skin sensitizer. LLNA: Local Lymph Node Assay. (mouse) Skin allergy was observed.
Repeated dose toxicity
Subchronic oral administration to rat / affected organ(s): liver, heart / signs: changes in organ weights, changes in organ structure or function, blood chemistry changes, changes in body weight
Repeated dermal administration to rabbit / affected organ(s): skin / signs: Irritation / No adverse systemic effects reported.
Genotoxicity
Assessment in Vitro:
No genetic changes were observed in laboratory tests using: bacteria, animal cells
Genotoxicity
Assessment in Vivo:
No genetic changes were observed in a laboratory test using: mice
Developmental toxicity
Exposure during pregnancy. oral (rat) / No birth defects were observed.
Human experience
Skin contact:
Skin: No skin allergy was observed. (studied using human volunteers)

12. Ecological Information

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Environmental Fate: Not established
Environmental Toxicity: Not available

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Large amounts should be given to a licensed disposal agency. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local regulations.

14. Transportation Information

Transportation Hazard Class	Not listed
Placard Required	None

DOT Classifiation (Domestic, Land)	Non Classified Materials

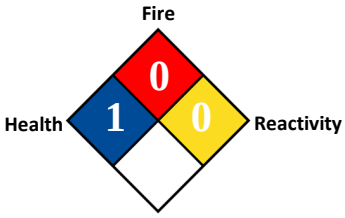
15. Regulatory Information

Not Known
Not Known.

16. Regulatory Information

DISCLAIMER:
See the product label for proper use directions.

HMIS (U.S.A.):



0= None
1=Slight
2=Moderate
3=Serious
4=Extreme

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OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, safety data sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this Safety Data Sheet available to your employees and customers.

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