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ArmorTech 44

MATERIAL SAFETY DATA SHEET

MSDS#: 1300

Product Code: Armortech

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EMERGENCY NUMBER: After hours, holidays, and all other non-business address, call CHEMTREC at 800 424 9300

Section I - Product Identification

Trade Name: **ArmorTech 44**

Chemical Description: Nitrogen Solution

Chemical Activity: 15% N

DOT Shipping Name: Fertilizing Compound, NOI, Liquid

Section II - Hazardous Ingredients

CAS#:	Common Name:	ACGIH/PPM		OSHA/PPM	
		TWA	STEL	PEL	% by Wt.
10294-56-1	Phosphorous acid				<50%
807-334-29-8	Urea phosphite				<16%

Route(s) Of Entry: Ingestion, Inhalation and Dermal.

Potential Health **Eyes:** Irritating to the eyes. **Skin:** Irritating to the skin. **Ingestion:** Irritating to the mouth, throat and digestive tract.
Effects: **Inhalation:** Irritating to the lungs, upper respiratory tract and nose.

Signs & Symptoms **Eyes:** Irritation of the eyes. **Skin:** Irritation of the skin. **Ingestion:** Possible nausea and/or vomiting. **Inhalation:** Irritation
Of Exposure: to the liungs and respiratory tract.

Carcinogenicity Not listed as a carcinogen by NTP, IARC or OSHA. No information available for Mutagenicity.
Mutagenicity:

Section III - Physical and Chemical Properties

Boiling Point: >H₂O

Melting Point: N/A

Specific Gravity: 1.38

pH: pH of 1% solution: 4.0 +/- 0.3

Appearance Clear, concentrated, odorless liquid
And Odor:

Section IV - Fire and Explosion Data

Flash Point: Not Established

LEL: N/A

Flammable Limits: Non-flammable

UEL: N/A

Extinguisher Chemical type foam, CO₂ (Carbon Dioxide), water fog. This product is a nonflammable inorganic substance.
Media:

Special Fire Firefighters should wear NIOSH/MSHA approved SCUBA and full protective clothing. Keep unnecessary people away,
Fighting Procedures: isolate hazard area and deny entry. Evacuate residents who are downwind of fire to avoid inhalation of irritating and/or
harmful fumes and smoke. Cool exposed containers with water spray to prevent overheating. Dike area to prevent
runoff. Dispose water later.

Unusual Fire And Toxic & irritating phosphorus oxides may be formed.
Explosion Hazards:

Section V - First Aid Data

Ingestion: If victim is conscious and alert, give 2-3 glasses of water to drink and **DO NOT INDUCE VOMITING. Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical. See other information.

Eyes: Flush eyes with large quantities of running water for a minimum of 15 minutes. If victim is wearing contact lenses, remove them. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. If irritation persists **get medical attention.**

Skin: Remove contaminated clothing including shoes and immediately wash affected area with plenty of soap and water. Oils/ointments should not be used at this time. Seek immediate medical attention. Wash contaminated clothing and shoes before reuse.

Inhalation: Remove from further exposure. Keep warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should administer oxygen. Seek immediate medical attention.

Section VI - Stability and Reactivity

Stability: This product is considered stable.

Hazardous Decomposition: Fumes of NH₃ and CO₂ are released when heated at high temperatures.

Incompatible Materials: Bases, oxidizing and reducing agents.

Conditions To Avoid: Excessive temperatures.

Hazardous Combustion Products: Oxides of phosphorus

Polymerization Conditions To Avoid: Will not occur.

Section VII - Precautions for Safe Handling

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb liquid spills with a dry absorbant and dispose of at an appropriate waste disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal.

Handling And Storage Precautions: Use appropriate personal protective equipment as specified. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices. Store in unopened containers under cool and dry conditions. Keep from freezing. See other information. Do not store with, or close to oxidizers or strong bases.

Section VIII - Disposal Information

Waste Disposal Methods: In case of spill, contain material and call local authorities for emergency assistance. Neutralize the spilled acid with soda ash or lime. Collect in appropriate containers. Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations, and product characteristics at time of disposal. Chemical additions, processing

Container Disposal Information: Consult an expert on the disposal of container. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately.

Section IX - Exposure Control & Personal Protection

Skin Protection: Where contact is likely, protective clothing should be worn to minimize skin contact.

Respiratory Protection: NIOSH/MSHA approved for mists. Use with adequate ventilation and employ respiratory protection when exposure to mist and spray is possible.

Eye Protection: Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Other Protection: Protective clothing should be worn. Wear chemical resistant safety shoes. Wash clothing with soap and water and dry before reuse. Safety showers and eye wash facilities should be provided in all areas in which this product is handled.

Hygienic Practices: All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, and at end of work day, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower. Avoid prolonged or repeated breathing of spray mist and contact with skin. Launder contaminated clothing.

Section X - Transport Information/Regulatory Comments

DOT Hazard Class: Not regulated by D.O.T.

OSHA Status: This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

TSCA Status: Listed/Non-reportable

State Right To Know Laws:

The following ingredients are disclosed for compliance with State Right to Know Laws:

CAS#	Chemical Name	State RTK

California Proposition 65:

This product does NOT contain a chemical or chemicals subject to California Proposition 65.

Michigan Critical Materials:

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Key Legend Information:

N/Av: Not Available **N/Ap:** Not Applicable **OSHA:** Occupational Safety and Health Administration **Lower Explosive Limit (LEL)** **Upper Explosive Limit (UEL)**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Material Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200). This supersedes any previous information. All LidoChem, Inc. MSDS's are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version. Please request a new MSDS from LidoChem, Inc. if the date is older than 3 years.

NOTICE: 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 training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.