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NUTROL

MATERIAL SAFETY DATA SHEET

MSDS#: 850

Product Code: NUTROL

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Page: 1 of 3

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

Section I - Product Identification

Trade Name: NUTROL

Chemical Description: KH_2PO_4

Chemical Activity: Potassium Phosphate

DOT Shipping Name: Monopotassium Phosphate

Section II - Hazardous Identity Information and Emergency Overview

Not considered a hazardous product. Irritating to skin and eye. Abdominal cramping, etc. on ingestion
Product is not flammable or reactive.

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

Potential Health Effects: **Eye:** May cause irritation **Skin:** Skin absorption not likely. May cause irritation, on prolonged contact.
Inhalation: May cause upper respiratory tract irritation. **Ingestion:** Ingestion of large quantities may cause irritation, nausea, vomiting, diarrhea, abdominal cramps.

Signs & Symptoms Of Exposure: **Acute:** May cause irritation to the eyes, skin, respiratory tract and digestive tract.
Chronic: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

Carcinogenicity Not listed.

Mutagenicity:

Section III - Physical and Chemical Properties

Boiling Point: N/A

Melting Point: N/A

Specific Gravity: N/A

pH: 4.5 +/- 0.03

Appearance Odorless, white powder

And Odor:

Section IV - Fire and Explosion Data

Flash Point: N/A

LEL: N/A

Flammable Limits: N/A

UEL: N/A

Extinguisher Media: Not combustible. Use extinguishing method suitable for surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Unusual Fire And Explosion Hazards: Not combustible.

Section V - First Aid Data

Ingestion: If victim is conscious and alert, give 2-3 glasses of water to drink and induce vomiting by touching back of throat with a finger. **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. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

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. Get medical attention if eye irritation occurs.

Skin: In case of contact, immediately wash with plenty of soap and water for at least 15 minutes. Oils/ointments should not be used at this time. Seek medical attention. Remove contaminated clothing and shoes before reuse or discard if they cannot be thoroughly cleaned.

Inhalation: Remove to fresh air. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

Section VI - Stability and Reactivity

Stability: This material is stable under normal handling and storage conditions.

Hazardous Decomposition: Oxides of phosphorus, oxides of potassium.

Incompatible Materials: None known.

Conditions To Avoid: None known.

Hazardous Combustion Products: None.

Polymerization Conditions To Avoid: None known.

Section VII - Precautions for Safe Handling

Steps To Be Taken In Case Material Is Released Or Spilled: Wear appropriate protective gear for the situation. Dike or retain dilution water or water from fire fighting for later disposal. Sweep or vacuum up and place in a n appropriate closed container. Clean up residual material by washing area with water and detergent. Runoff from fire control or dilution water may cause pollution. Large spills should be handled according to a predetermined plan.

Handling And Storage Precautions: Avoid direct or prolonged contact with skin and eyes. Keep containers closed when not being used. This product is hygroscopic and tends to cake on storage. Store in an area that is cool and dry. Recommended container material: stainless steel. Container material to avoid: brass.

Section VIII - Disposal Information

Waste Disposal Methods: Chemical additions, processing or otherwise altering this material may make the waste management information present in this MSDS incomplete, inaccurate or otherwise inappropriate. Be advised that state/local requirements for waste

Container Disposal Information: Be advised that state/local requirements for container disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of container.

Section IX - Exposure Control & Personal Protection

Skin Protection: Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations.

Eye Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Other Protection: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the above listed and following traditional exposure control techniques may be used to effectively minimize employee exposures.

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, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

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
	none	

California Proposition 65:

This product does NOT contain any chemicals which require warning under 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

