

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ATLAS FISH FERTILIZER 4-1-1 Date of Preparation: 02/12/05
NFPA HAZARD RATINGS: Health(1), Fire(0), Reactivity(0). {(0)least (1)slight (2)moderate (3)high (4)extreme.}

Section 1-CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Manufacturer: LILLY MILLER BRANDS PO BOX 2289 CLACKAMAS OR 97015
Emergency Telephone: 503-451-4451

Section 2-COMPOSITION/INFORMATION on HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT NAME	FORMULA	CAS No.
Phosphoric Acid	H ₃ PO ₄	7664-38-2

SEE SECTION 8 for details.

Section 3-HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Potential Health Effects: Primary Entry Routes: Eyes, skin, ingestion. Target Organs: Eyes, skin, gastrointestinal tract. Acute Effects: *Eye:* May cause irritation, redness and/or burning. *Skin:* May cause irritation, redness and/or burning. *Ingestion:* May be harmful if swallowed. May cause abdominal cramps, nausea, vomiting and/or diarrhea.
Medical Conditions Aggravated by Long-Term Exposure: Persons with existing skin lesions should exercise caution when using or handling this product. Chronic Effects: Prolonged skin contact may cause dermatitis.

Section 4-FIRST AID MEASURES

Eye Contact: Flush eyes with plenty of water for at least 15 minutes. Get medical attention. Skin Contact: Wash affected area with mild soap and water. Get medical attention if irritation persists or develops. Ingestion: DO NOT INDUCE VOMITING. Give large quantities of water. Get immediate medical attention. .
Note to Physicians: Product contains low levels of phosphoric acid.

Section 5-FIRE FIGHTING MEASURES

Flash Point: NA. Flammability Classification: Non-flammable. Extinguishing Media for Surrounding Area: Water spray, dry chemical, carbon dioxide, foam. Unusual Fire or Explosion Hazards: Containers exposed to fire may rupture violently. Keep containers cool with water spray. Hazardous Combustion Products: Oxides of nitrogen, phosphorus and/or phosphorus. Fire-Fighting Instructions: Fire fighters should wear full protective equipment and self-contained breathing apparatus. Prevent runoff from entering water systems. Keep non-essential personnel out of fire area.

Section 6-ACCIDENTAL RELEASE MEASURES

Spill/Leak Procedures: Small Spills: Prevent spill from entering water systems. Absorb spill on inert material such as clay, vermiculite or kitty litter. Place absorbed material into labeled container for proper disposal.

Section 7- HANDLING and STORAGE

Handling Precautions: Avoid contact with skin, eyes and clothing. Do not take internally. Wash after handling. Do not contaminate water by disposal of equipment wash waters. Storage Requirements: Store in a cool, dry area preferably locked and out of reach of children.

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Section 8-EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Not normally required. Protective Clothing/Equipment: Safety glasses recommended.

EXPOSURE GUIDELINES:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL	
	TWA	STEL	TWA	STEL	TWA	STEL
Phosphoric Acid	NA	NA	1 mg/m ³	3 mg/m ³	1 mg/m ³	3 mg/m ³

Section 9-PHYSICAL/CHEMICAL PROPERTIES

Physical State: Brown, free flowing liquid with fishy odor. Solubility in Water: Soluble. Density: 9.25 lbs/gal.
pH: 3.6-3.8

Section 10-STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use and storage. DO NOT FREEZE. Polymerization: NO. Chemical Incompatibilities: Alkaline materials. Conditions to Avoid: Extreme heat. Do not freeze. Hazardous Decomposition Products: Oxides of nitrogen, phosphorus and/or sulfur.

Section 11-TOXICOLOGICAL INFORMATION

No laboratory tests for this product for the following: Eye Effects, Skin Effects, Acute Inhalation Effects, and Chronic Effects.

Positive Teratogen/Mutagen/Carcinogen (NTP): NO.

Potential Carcinogen OSHA/IARC: NO.

Section 12-ECOLOGICAL INFORMATION

Accidental spills of undiluted product may cause vegetation kills. Keep out of any body of water.

Section 13-DISPOSAL CONSIDERATIONS

Disposal: Consult local, state or federal regulatory agencies for acceptable disposal procedures and locations. Disposal in waterways or sewers may be prohibited.

Section 14-TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101): not regulated

Section 15-REGULATORY INFORMATION

EPA Regulations: Not regulated by EPA under FIFRA or FQPA. OSHA Regulations: Refer to Sections 2 & 8. State Regulations: Check with specific state authorities since regulations vary within the states. SARA Title III; Sections 311/312: Sudden Release of Pressure (N); Reactivity (N); Fire (N); Immediate (Acute) Health (Y); Delayed (Chronic) Health (N). Phosphoric acid listed in Sections 304 & 313.

Section 16-OTHER INFORMATION

Prepared by: Format similar to ANSI Z400.1-2004

ND= Not Determined; NA= Not Applicable; NIA= No Information Available