



Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Phos-Chek ® LC-95D

MSDS Number: AST 10096

Date: April 15, 2003

ASTARIS LLC, 622 EMERSON – SUITE 500, ST. LOUIS, MO 63141

Emergency telephone: In USA call CHEMTREC 1-800-424-9300
In Canada call CANUTEC 1-613-996-6666

General Information: ASTARIS LLC, 810 E. Main ST, Ontario, CA 91761
1-909-983-0772

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS No.</u>	<u>% by Weight</u>
Ammonium Polyphosphate	68333-79-9	> 85.0
Attapulugus Clay	8013-18-3	< 5.0
Iron Oxide	1332-37-2	< 5.0
Performance additives	Trade Secret	< 8.0

Performance additives are Company Trade Secret – Business Confidential. Astaris LLC is withholding the specific chemical identity under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: red or orange liquid with no odor

NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: skin contact and inhalation

EYE CONTACT: This product is no more than slightly irritating to the eye based on available information.

SKIN CONTACT: This product is no more than slightly irritating to the skin and no more than slightly toxic when absorbed based on available information.

INHALATION: This product is not believed to pose an inhalation hazard.

INGESTION: This product is no more than slightly toxic when swallowed based on available information. Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.

4. FIRST AID MEASURES

IF IN EYES: Immediate first aid is not likely to be required. However, this material can be removed with water.

IF ON SKIN: Immediate first aid is not likely to be required. However, this material can be removed with water. Wash heavily contaminated clothing before reuse.

IF INHALED: Immediate first aid is not likely to be required. Remove material from eyes, skin and clothing.

IF SWALLOWED: Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice. Wash heavily contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Applicable.

HAZARDOUS PRODUCTS OF COMBUSTION: None known.

EXTINGUISHING MEDIA: Not Applicable.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Applicable.

FIRE FIGHTING EQUIPMENT: Not Applicable.

6. ACCIDENTAL RELEASE MEASURES

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.

Refer to Section 13 for disposal information.

7. HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF THE MATERIAL FROM EYES, SKIN AND CLOTHING.

Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in the MSDS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Although this material does not cause significant eye irritation or eye toxicity requiring special protection, good industrial practice should be used to avoid eye contact.

Skin Protection: Although this material does not present a significant skin concern, skin contamination should be minimized as good industrial practice. Wearing of protective gloves is recommended. Wash hands and contaminated skin after handling.

Respiratory Protection: Avoid breathing vapor and/or mist. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

Ventilation: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

AIRBORNE EXPOSURE LIMITS:

OSHA and ACGIH has not established specific exposure limits for this material. These product are water solutions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: red liquid

Odor: none

pH: 5.0 – 6.5

Viscosity: >100 cps

Specific Gravity: 1.40 - 1.44 @ 25 degrees C

Solubility in Water: complete

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions of storage and handling.

MATERIALS TO AVOID: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Does not occur.

11. TOXICOLOGICAL INFORMATION

Astaris LLC has not conducted toxicity studies with this material and no data was found in a reasonably extensive search of the literature. Component data includes the following information:

Ammonium Polyphosphate

Ingestion: Accute oral toxicity rat LD₅₀ 5000 mg/kg
Inhalation: Rats: One hour exposure to 19.6 mg/l was non lethal
Aquatic toxicity rating: Aquatic toxicity data indicates that liquid ammonium phosphate is of low toxicity to the species tested.

Additional Component Information

These components are not expected to present an inhalation hazard during routine shipping or handling due to their physical properties as liquids. Cohesive solids are left as residues from these fire retardants after loss of all of the water. When spilled, under normal conditions fire retardant physical properties would prevent production of respirable dusts. The hazardous components present in these products could cause respiratory tract irritation and/or sensitization if conditions resulting in generation of respirable dusts are allowed.

12. ECOLOGICAL INFORMATION

Astaris LLC has not conducted environmental toxicity or biodegradation studies with this product.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dispose of by incineration or recycle in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG regulations.

15. REGULATORY INFORMATION

TSCA Inventory: Components are listed.

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Not Applicable

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemical(s): None

CERCLA Reportable Quantity: Not Applicable

Refer to Section 13 for RCRA classification.

16. OTHER INFORMATION

Reason for revision: New Product.

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