



**ICL Performance
Products LP**

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: Phos-Chek ® LC-95D
Reference Number: AST10097
Date: November 1, 2005

Use of the substance or preparation

Fire retardant

Company/Undertaking Identification

ICL PERFORMANCE PRODUCTS LP
622 Emerson Road - Suite 500
St. Louis, Missouri 63141

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

General Information: +1 800 244 6166 (Worldwide)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

<u>Substance</u>	<u>CAS No.</u>	<u>%w/w</u>	<u>EINECS No.</u>	<u>Risk Phrase</u>
Ammonium Polyphosphate	68333-79-9	> 85.0	269-789-9	none
Attapulgus Clay	8031-18-3	< 5.0	310-127-6	none
Iron Oxide	1332-37-2	< 5.0	215-570-8	none
Performance additives	Trade Secret	< 8.0	Listed	none

Performance additives are Company Trade Secret – Business Confidential. ICL Performance Products LP is withholding the specific chemical identity under provision of the OSHA Hazard Communication Rule Trade Secrets (1910.1200(i)(1)). The specific chemical identity will be made available to health professionals in accordance with 29 CFR 1910.1200(i)(1)(2)(3)(4).

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

None

Human health effects

On the basis of available information, this material is not expected to produce any significant adverse

ICL Performance Products LP Material Safety Data Sheet

Material: Phos-Chek ® LC-95D

Reference No.: AST10097

Page 2 of 6

November 1, 2005

health effects when recommended use instructions are followed.

Environmental effects

On the basis of available information, this material is not expected to produce any significant adverse environmental effects when recommended use instructions are followed.

4. FIRST AID MEASURES

General

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

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

Inhalation

This product is not believed to pose an inhalation hazard. Immediate first aid is not likely to be required. Remove material from eyes, skin and clothing.

Ingestion

This product is no more than slightly toxic when swallowed based on available information. 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

Extinguishing media

No special requirement.

Unsuitable extinguishing media

No special requirement.

Exposure hazard

None known.

Protective equipment

As a general precaution, firefighters, and others exposed, wear full protective clothing and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid unnecessary exposure and remove all material from eyes, skin and clothing.

ICL Performance Products LP Material Safety Data Sheet

Material: Phos-Chek ® LC-95D

Reference No.: AST10097

Page 3 of 6
November 1, 2005

Environmental precaution

Small quantities: See below.

Large quantities: See below.

Methods for cleaning up

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

Handling

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.

Engineering measures

Provide natural or mechanical ventilation to minimize exposure. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult National Fire Protection Association (NFPA) Standard 91 for design of exhaust systems.

Storage

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

Occupational Exposure Limits

OSHA and ACGIH have not established specific exposure limits for this material. This product is a water solution.

Respiratory protection

Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH / MSHA or the manufacturer. Refer to U.S. OSHA regulations 29 CFR 1910.134 or European Standard EN 149.

Hand/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.

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.

Components referred to herein may be regulated by specific Canadian provincial legislation. Please

ICL Performance Products LP Material Safety Data Sheet

Material: Phos-Chek ® LC-95D

Reference No.: AST10097

Page 4 of 6

November 1, 2005

refer to exposure limits legislated for the province in which the substance will be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance: red or orange liquid

Odor: none

Solubility in Water: complete

Important health, safety and environmental information

pH: 5.0 – 6.5

Viscosity: >100 cps

Specific Gravity: 1.40 - 1.44 @ 25 degrees C

Flash Point: Not applicable

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

Product is stable under normal conditions of storage and handling.

Conditions to avoid

None known.

Materials to avoid

None known.

Hazardous decomposition

None known.

11. TOXICOLOGICAL INFORMATION

Laboratory data

ICL Performance Products LP has not conducted toxicity studies with this material and no data was found in a reasonably extensive search of the literature.

Additional Information

Component data includes the following information:

Ammonium Polyphosphate

Ingestion: Acute 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

ICL Performance Products LP Material Safety Data Sheet

Material: Phos-Chek ® LC-95D

Reference No.: AST10097

Page 5 of 6

November 1, 2005

could cause respiratory tract irritation and/or sensitization if conditions resulting in generation of respirable dusts are allowed.

12. ECOLOGICAL INFORMATION

Environmental toxicity

ICL Performance Products LP has not conducted environmental toxicity or biodegradation studies with this product.

Environmental Fate

ICL Performance Products LP has not conducted environmental toxicity or biodegradation studies with this product.

13. DISPOSAL CONSIDERATIONS

European waste catalog number

Unknown

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.

Road/Rail, Sea and Air

IMDG/UN	not regulated for transportation
ICAO/IATA	not regulated for transportation
RID/ADR	not regulated for transportation
Canadian TDG	not regulated for transportation
US DOT	not regulated for transportation

15. REGULATORY INFORMATION

EC label

Undetermined

Chemical Inventory

USA TSCA	Listed
EU EINECS	Listed
Canada DSL/NDSL	Listed

Additional information

SARA Hazard Notification	
Hazard Categories Under Title III Rules (40 CFR 370):	Not applicable
Section 302 Extremely Hazardous Substances:	Not applicable

ICL Performance Products LP Material Safety Data Sheet

Material: Phos-Chek ® LC-95D

Page 6 of 6

Reference No.: AST10097

November 1, 2005

Section 313 Toxic Chemical(s):

Not applicable

CERCLA Reportable Quantity: Not applicable

*Release of 5,000 lbs. or more of this product into the environment in a 24-hour period requires notification to the U.S. National Response Center (800-424-8802 or 202-426-2675). Since local, state, and federal laws vary; consult your attorney or appropriate regulatory officials for information relating to spill reporting.

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation and the MSDS contains all the information required by the Canadian Controlled Products Regulation.

Refer to Section 11 for OSHA/HPA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	2	0	0	
Suggested HMIS Rating	2	0	0	E E = Safety glasses, gloves, dust respirator

Reason for revision: New Company
Drafted in accordance with ECC Dir 2001/58/EC

Supersedes MSDS dated: 25 June 2004

Phos-Chek ® is a registered trademark of ICL Performance Products LP

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, ICL Performance Products LP makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ICL Performance Products LP be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.