

Safety Data Sheet



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name: Phos-Chek ® LC95W
Synonyms: Phos-Chek ® Home Defense Fire Retardant
Reference Number: AST10150
Date: May 8, 2015

Use of the substance or preparation

Fire retardant

Company/Undertaking Identification

Perimeter Solutions

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

Outside the USA, including ships at sea, call CHEMTREC's international and maritime telephone number (collect calls accepted): +1 (703) 527-3887

General Information: +1 800 244 6169 (Worldwide)

2. HAZARDS IDENTIFICATION

GHS – This product does not meet the criteria for classification under GHS

3. 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 Solution		> 85.0		none
Attapulgus Clay	8031-18-3	< 5.0	310-127-6	none
Performance additives	Trade Secret	< 8.0	Listed	none

Performance additives are Company Trade Secret – Business Confidential. Perimeter Solutions 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).

4. FIRST AID MEASURES

General

Likely Routes of Exposure: skin contact and inhalation.

Eye contact

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

Skin contact

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

Inhalation

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

Ingestion

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.

Environmental precaution

Small quantities: See below.

Large quantities: See below.

Perimeter Solutions Safety Data Sheet

Material: Phos-Chek ® LC95W

Reference No.: AST10150

Page 3 of 6

May 8, 2015

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

9. PHYSICAL AND CHEMICAL PROPERTIES

- a) Appearance: pale green liquid

Perimeter Solutions Safety Data Sheet

Material: Phos-Chek ® LC95W

Reference No.: AST10150

Page 4 of 6

May 8, 2015

- b) Odor: None
- c) Odor threshold: Undetermined.
- d) pH: 5.0 – 6.5
- e) Melting point/freezing point: Undetermined
- f) Initial boiling point and boiling range: Undetermined.
- g) Flash point: Undetermined
- h) Evaporation rate: Undetermined.
- i) Flammability (solid, gas) : Undetermined.
- j) Upper/lower flammability or explosive limits: Undetermined.
- k) Vapor pressure: Undetermined.
- l) Vapor density: Undetermined.
- m) Relative density: Undetermined.
- n) Solubility(ies) : Water > 95 %
- o) Partition coefficient: n-octanol/water: Undetermined.
- p) Auto-ignition temperature: Undetermined.
- q) Decomposition temperature: Undetermined.
- r) Viscosity: > 100 cps
- s) Specific Gravity: 1.40 - 1.50 @ 25 °C
- t) Chemical Formula: $\text{Ca}_2\text{P}_2\text{O}_7$

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

Oral - rat LD₅₀: > 5,050 mg/kg practically nontoxic

Dermal - rabbit LD₅₀: > 2,020 mg/kg; No More Than Slightly Toxic

Eye Irritation - rabbit: 11.8/110.0; minimally irritating

Skin Irritation - rabbit: 0.0/8.0 (24-hr. exp.); nonirritating

12. ECOLOGICAL INFORMATION

Environmental toxicity

Coldwater fish: 96-hr LC₅₀ Rainbow trout: 465 mg/L, Practically Nontoxic

Perimeter Solutions Safety Data Sheet

Material: Phos-Chek ® LC95W

Reference No.: AST10150

Page 5 of 6

May 8, 2015

Environmental Fate

Perimeter Solutions has not conducted environmental toxicity or biodegradation studies with this product.

13. DISPOSAL CONSIDERATIONS

European waste catalog number

Unknown

Disposal considerations

Consult your attorney or appropriate regulatory official for information on disposal and on the recycling exemption. Recycle or dispose of in accordance with local, state, provincial, and federal regulations.

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

WHMIS Classification: Not controlled.

Additional information

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Not applicable Section 302

Extremely Hazardous Substances: Not applicable

Section 313 Toxic Chemical(s): Not applicable

CERCLA Reportable Quantity: Not applicable

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.

Perimeter Solutions Safety Data Sheet

Material: Phos-Chek ® LC95W

Reference No.: AST10150

Page 6 of 6

May 8, 2015

16. OTHER INFORMATION

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>	<u>Additional Information</u>
Suggested NFPA Rating	0	0	0	
Suggested HMIS Rating	0	0	0	

Reason for revision: Sections 2, 3, 9.

Supersedes MSDS dated: June 17, 2014

Phos-Chek ® is a registered trademark of Perimeter Solutions.

Responsible Care ® is a registered trademark of the American Chemistry Council.

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, Perimeter Solutions 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 Perimeter Solutions 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.

AST10150.160doc