



Date: 08/13/2015

Revision: 00

Safety Data Sheet Starver[®]M

Section 1: Identification

Product Identifier:	Starver [®] M
Other Means of Identification:	Solution of Lanthanum Chloride and other ingredients
Recommended Use:	Reduce phosphates in swimming pool water
Manufacturer's Name:	Spec Chem Direct, Inc.
Corporate Address:	6506 S 209th St., Kent, WA, 98032
Manufacturer's Telephone:	(253) 277-3143 (Monday-Friday, 8AM-5PM PT)
Emergency Phone Number:	(253) 277-3143 (Monday-Friday, 8AM-5PM PT)

Section 2: Hazard(s) Identification

Hazard Classification: This product is not classified according to the Globally Harmonized System (GHS).

Signal Word: N/A

Hazard statement(s): N/A

Pictograms: N/A

Precautionary Statement(s): N/A

Hazards Not Otherwise Classified: N/A

Ingredient(s) With Unknown Toxicity: 0% of the mixture consists of ingredient(s) with unknown acute toxicity.

Section 3: Composition/Information on Ingredients

Ingredients	% by weight	CAS #
Lanthanum Chloride	10.5%	10025-84-0
Other Non-Hazardous Ingredients	5% - 10%	Trade Secret
Water	to 100%	7732-18-5

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Impurities and Stabilizing Additives, Which Are Themselves Classified and Which Contribute to the Classification of the Chemical: None

The Chemical Name and Concentration of All Ingredients Which Are Classified As Health Hazards and Are Present Above Their Cut-Off/Concentration Limits or Present a Health Risk Below the Cut-Off/Concentration Limits: None

Chemicals Where a Trade Secret Is Claimed: This product contains 5% - 10% non-hazardous ingredients.

Section 4: First-Aid Measures

Inhalation: First aid is not generally required. If in doubt, contact a Poison Information Center or a doctor.

Skin: No specific health data is available for this product. If any unusual symptoms become evident, or if in doubt, wash skin with water and contact a Poison Information Center or a doctor.

Eyes: No effects expected. If irritation does occur, remove contact lenses (if applicable), flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: If product gets into mouth, wash mouth with water and give some water to drink. Further first aid is not generally required. If in doubt contact a Poisons Information Centre or a doctor.

Most Important Symptoms or Effects, and Any Symptoms That Are Acute or Delayed: N/A

Recommendations for Immediate Medical Care and Special Treatment Needed, When Necessary: N/A

Section 5: Fire-Fighting Measures

Suitable / Unsuitable Extinguishing Equipment: Does not burn. Use extinguishing media appropriate for surrounding fire.

Specific Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Special Protective Equipment or Precautions for Fire Fighters: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Section 6: Accidental Release Measures

Personal Precautions: Refer to Section 8: Exposure Controls/Personal Protection and Section 7: Handling and Storage.

Emergency Procedures: Minor spills do not normally need any special cleanup measures.

Methods and Materials for Containment and Cleanup: Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. Dispose of per guidelines under Section 13: Disposal Considerations.

Section 7: Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if product gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing. Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Storage: Store in original container in a cool, dry and well ventilated area away from direct heat. Store away from strong acids.

Section 8: Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs): Not applicable.

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs): Not applicable.

Any Other Exposure Limit Used or Recommended: Not applicable.

Appropriate Engineering Controls: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that vapors and mists are minimized.

Individual Protection Measures (Personal Protective Equipment – PPE): Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles. The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely. There is no specific recommendation for any particular protective material type. Usually, no respirator is necessary when using this product.

Section 9: Physical and Chemical Properties

Appearance: White aqueous slurry

Odor: No odor

Odor threshold: No data available.

pH: 7.8 - 8.0

Melting Point/Freezing Point: Approximately -3°C.

Initial Boiling Point and Boiling Range: Approximately 105°C at 100kPa.

Flash Point: Does not burn.

Evaporation Rate: No data available.

Flammability (Solid, Gas): Does not burn.

Upper/Lower Flammability or Explosive Limits: Does not burn.

Vapor Pressure: 2.37 kPa at 20°C (water vapor pressure).

Vapor Density: No data available.

Relative Density: 1.2 - 1.3

Solubility(ies): Slurry ingredient remain insoluble in water. Other ingredients are soluble in water.

Partition Coefficient (n-octanol/water): No data available.

Auto-ignition Temperature: Not applicable - does not burn.

Decomposition Temperature: Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

Viscosity: No data available.

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

Section 10: Stability and Reactivity

Reactivity: Material is stable under normal temperatures.

Chemical Stability: Material is stable under normal temperatures.

Possibility of Hazardous Reactions: Hazardous Polymerization will not occur.

Conditions to Avoid: None known.

Incompatible Materials: Strong acids.

Hazardous Decomposition Products: Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

Section 11: Toxicological Information

Likely Routes of Exposure (Inhalation, Ingestion, Skin and Eye Contact and Delayed, Immediate, or Chronic Effects from Short- and Long-Term Exposure:

Inhalation

Short term exposure: Significant inhalation exposure is considered to be unlikely. Available data indicates that this product is not harmful. In addition product is unlikely to cause any discomfort or irritation.

Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition product is unlikely to cause any discomfort in normal use.

Long Term exposure: No data for health effects associated with long term skin exposure.

Eye Contact:

Short term exposure: Exposure via eyes is considered to be unlikely. This product may be mildly irritating to eyes, but is unlikely to cause anything more than mild discomfort which should disappear once product is removed.

Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short term exposure: Significant oral exposure is considered to be unlikely. This product is unlikely to cause any irritation problems in the short or long term.

Long Term exposure: No data for health effects associated with long term ingestion.

Numerical Measures of Toxicity:

Oral LD₅₀: None.

Dermal LD₅₀: None.

Inhalation LC₅₀: None.

Description of the symptoms: Lanthanides, because of their high density, can produce abnormalities on chest x-rays.

Carcinogenicity (NTP, IARC, or OSHA): This product is not known or reported to be carcinogenic by any reference source including NTP, IARC, or OSHA.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: This product does not degrade naturally. It will not cause ecological problems because it does not enter biological systems.

Persistence and Degradability: Not available.

Bioaccumulative Potential: This product does not degrade naturally. It will not cause ecological problems because it does not enter biological systems.

Mobility in Soil: Not available.

Other Adverse Effects: None known.

Section 13: Disposal Considerations (non-mandatory)

Appropriate Disposal Containers: Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

Recommended Appropriate Disposal Methods: This product should be suitable for landfill. Can be disposed of with household waste.

Physical and Chemical Properties That May Affect Disposal Activities: None.

Special Precautions for Landfills or Incineration Activities: None.

Do not dispose of into sewer or waterways.

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

To minimize exposure, refer to Section 8: Exposure Controls/Personal Protection

Section 14: Transport Information (non-mandatory)

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class(es): Not regulated.

Packing Group Number, if Applicable: Not regulated.

Environmental Hazards (e.g., Marine pollutant (Yes/No)): No.

Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable.

Special Precautions Which a User Needs to Be Aware of, or Needs to Comply With, in Connection With Transport or Conveyance Either Within or Outside Their Premises: None.

Section 15: Regulatory Information (non-mandatory)

National and/or Regional Regulatory Information of the Chemical or Mixtures (Including Any OSHA, Department of Transportation, Environmental Protection Agency, or Consumer Product Safety Commission Regulations):

TSCA: Not listed on the TSCA inventory.

CERCLA Reportable Quantity (RQ): None of the ingredients is listed.

OSHA: Not considered hazardous.

EPA: Exempt from EPA code.

SARA Section 302: Does not have an RQ or TPQ.

SARA Section 311/312: Not reportable under Section 311/312.

SARA Section 313: Not reportable under Section 313.

California Proposition 65: Not applicable.

Section 16: Other Information

REVISION INFORMATION:

SDS sections(s) changed since last revision of document:

00 08/13/2015 Original SDS Document

DISCLAIMER:

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