



Date: 08/15/2015

Revision: 00

Safety Data Sheet Starver[®] Test Kit Reagent B

Section 1: Identification

Product Identifier: Starver[®] Test Kit Reagent B
Other Means of Identification:
Recommended Use: Reagent for phosphate determination in aqueous solution.
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 #
Stannous Chloride	0.4%	7772-99-8
Other Non-Hazardous Ingredients	to 100%	Trade Secret

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: The balance of this product contains other 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 nausea or gastric upset develops, remove individual to rest area and monitor. If symptoms get worse or if individual becomes distressed, contact a Poison Information Center 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: Preferred extinguishing media are carbon dioxide, dry chemical, foam, water fog.

Specific Hazards: There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. At elevated temperatures (above 200°C,) there is a risk of exothermic polymerization. At temperatures above 280°C, acrolein may be formed. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

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 the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs): Unknown.

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs): Unknown.

Any Other Exposure Limit Used or Recommended: Tin Compounds (Stannous Chloride) TWA (mg/m³) 2, STEL (mg/m³) Not Set.

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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 such as protective glasses or goggles is recommended when this product is being used. 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: Clear, colorless viscous liquid.

Odor: No odor

Odor threshold: No data.

pH: Approx. 7.0

Melting Point/Freezing Point: No specific data. Liquid at normal temperatures.

Initial Boiling Point and Boiling Range: Approx 290°C at 100kPa

Flash Point: Not flammable.

Evaporation Rate: No data.

Flammability (Solid, Gas): No data.

Upper/Lower Flammability or Explosive Limits: No data.

Vapor Pressure: Negligible at normal ambient temperatures.

Vapor Density: No data.

Relative Density: 1.3 approx.

Solubility(ies): Completely soluble in water.

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

Auto-ignition Temperature: No data.

Decomposition Temperature: No data.

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: This product is unlikely to react or decompose under normal storage conditions.

Chemical Stability: At temperatures above 280°C, acrolein may be formed.

Possibility of Hazardous Reactions: At elevated temperatures (above 200°C,) there is a risk of exothermic polymerization.

Conditions to Avoid: Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. Small quantities of tin and chlorine compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

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. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

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 irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

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, while believed to be not harmful, is likely to cause headache and gastric disturbance such as nausea and vomiting if ingested in significant quantities, because of the presence of tin salts. 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: Not available.

Dermal LD50: Not available.

Inhalation LC50: Not available.

Description of the symptoms: No data available.

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: The solvent in this product is biodegradable. It will not accumulate in the soil or water or cause long term problems. However, tin compounds can be toxic to many kinds of aquatic organisms. This product is therefore classed as harmful to aquatic organisms.

Persistence and Degradability: Not available.

Bioaccumulative Potential: The solvent in this product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

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: 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.

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: Unknown.

CERCLA Reportable Quantity (RQ): Unknown.

OSHA: Unknown.

EPA: Unknown.

SARA Section 302: Unknown.

SARA Section 311/312: Unknown.

SARA Section 313: Unknown.

California Proposition 65: Unknown.

Section 16: Other Information

REVISION INFORMATION:

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

00 08/15/2015 Original SDS Document

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