

---

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

---

**Product Name** : SR1010CL-VMS  
**Product Code** : 000391  
**Material Uses** : Corrosion and Scale Inhibitor  
  
**Manufacturer** : Meras Engineering Inc  
11230 Katherine's Crossing  
Woodridge, IL 60517  
  
**Validation Date** : June 7, 2011  
**In Case of Emergency** : Chem Tel: -813-248-0585 / 1-800-255-3924  
**Information Phone** : 630-410-7300

---

**SECTION 2: HAZARDS IDENTIFICATION**

---

**Physical State** : Coated Tablet  
**Color** : White  
**Odor** : Slight

**Emergency Overview**  
**Signal Word** : No signal word.  
**Hazard Statements** : NO SIGNIFICANT HAZARDS UNDER NORMAL CONDITIONS OF USE. SWALLOWING MAY CAUSE IRRITATION, NAUSEA AND VOMITING. IF TABLET IS BROKEN OR CRUSHED, HAZARDOUS DUSTS MAY BE FORMED. DUST MAY CAUSE SKIN AND EYE IRRITATION. HIGH CONCENTRATIONS OF DUST MAY CAUSE COUGHING AND MILD, TEMPORARY IRRITATION.

**Precautions** : Do not ingest. Wash thoroughly after handling.  
**OSHA/HCS Status** : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Under normal conditions of use, users of the product cannot be exposed to its harmful contents.

**Potential Acute Health Effects**  
**Eyes** : None expected, when used as intended. If tablet is broken or crushed, hazardous dusts may be formed. Dust contact with the eyes can lead to mechanical irritation. Large quantities may cause severe irritation and corneal injury.  
**Skin** : None expected, when used as intended.  
**Ingestion** : Swallowing may cause irritation, nausea and vomiting.  
**Inhalation** : None expected, when used as intended. If tablet is broken or crushed, hazardous dusts may be formed. Dusts may cause irritation of the mucous membranes and respiratory tract.

**Potential Chronic Health Effects**  
**Chronic Effects** : None expected, when used as intended.  
**Carcinogenicity** : None expected, when used as intended.  
**Mutagenicity** : None expected, when used as intended.  
**Teratogenicity** : None expected, when used as intended.  
**Developmental Effects** : None expected, when used as intended.  
**Fertility Effects** : None expected, when used as intended.  
**Target Organs** : None expected, when used as intended.

**Over-exposure Signs/Symptoms**  
**Inhalation** : No specific data.  
**Ingestion** : No specific data.  
**Skin** : No specific data.  
**Eyes** : No specific data.

**Medical Conditions Generally** : None known.  
**Aggravated by Exposure**

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS number	% by weight
Trisodium orthophosphate	7601-54-9	40 - 50
Benzotriazole	95-14-7	35 - 45
Magnesium Stearate	557-04-0	1 - 2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Though this product contains components that are considered hazardous, the nature of the product (coated tablet) makes it non-hazardous and the product as a whole is not regulated.

See Section 8 for Exposure Limits.

See Section 11 for Toxicological Data.

## SECTION 4: FIRST AID MEASURES

<b>Eye Contact</b>	: Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
<b>Skin Contact</b>	: Wash with soap and water. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Inhalation</b>	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
<b>Protection of First-aiders</b>	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
<b>Notes to Physician</b>	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance or 48 hours.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>Flammability of the Product</b>	: No specific fire or explosion hazard.
<b>Extinguishing Media</b>	
<b>Suitable</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Not Suitable</b>	: None known.
<b>Special Exposure Hazards</b>	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Hazardous Thermal Decomposition Products</b>	: Decomposition products may include the following: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
<b>Special Protective Equipment For Fire-fighters</b>	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

- Personal Precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
- Environmental Precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for Cleaning Up**
- Small Spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large Spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in designated, labeled waste container. Dispose of via licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

---

## SECTION 7: HANDLING AND STORAGE

---

- Handling** : Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Other Precautions** : FOR INDUSTRIAL USE ONLY.

---

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

---

- Recommended monitoring Procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering Measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measure** : Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal Protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

---

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

---

Physical State	: Coated Tablet.
Flash Point	: Not available.
Auto-ignition Temperature	: Not available.
Flammable Limits	: Not available
Color	: White.
Odor	: Slight.
pH	: Not available.
Boiling/Condensation Point	: Not available.
Melting/Freezing Point	: Not available.
Critical Temperature	: Not available.
Relative Density	: Not available.
Vapor Pressure	: Not available.
Vapor Density	: Not available.
Odor Threshold	: Not available.
Evaporation Rate	: Not available.
Solubility	: Coating is insoluble. Tablet is completely soluble.
LogK <sub>ow</sub>	: Not available.

---

## SECTION 10: STABILITY AND REACTIVITY

---

Chemical Stability	: The product is stable.
Conditions to Avoid	: No specific data.
Incompatible Materials	: Reactive or incompatible with the following materials: no specific data.
Hazardous Decomposition Products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of Hazardous	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous Polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

---

## SECTION 11: TOXICOLOGICAL INFORMATION

---

#### Acute Toxicity data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>	<u>Duration</u>
Benzotriazole	LD50	560 mg/kg	Oral	Rat	--
Trisodium orthophosphate	LD50	>7400 mg/kg	Oral	Rat	--
Magnesium Stearate	Not available				

**Chronic Toxicity**

Not available.

**Irritation/Corrosion**

Not available.

**Sensitizer**

Not available.

**Carcinogenicity**

Not available.

**Mutagenicity**

Not available.

**Teratogenicity**

Not available.

**Reproductive Toxicity**

Not available.

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

**Environmental Effects**

: No known significant effects or critical hazards.

**Persistence/Degradability**

: Not available

**Other Adverse Effects**

: No known significant effects or critical hazards.

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

---

**Waste Disposal Method**

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

---

**SECTION 14: TRANSPORT INFORMATION**

---

**DOT Proper Shipping Name**

: Refer to Bill of Lading or container label for DOT or other transportation hazard classification, if any.

---

**SECTION 15: REGULATORY INFORMATION**

---

**U.S. Federal Regulations**: **TSCA:** All components listed on TSCA inventory.**SARA 302/304/311/312 extremely hazardous substances:** No products were found.**SARA 302/304 emergency planning and notification:** No products were found.**SARA 302/304/311/312 hazardous chemicals:** Benzotriazole, Magnesium Stearate**SARA 311/312 MSDS distribution – chemical inventory – hazard****identification:** Benzotriazole: Immediate (acute) health hazard; Magnesium Sulfate:

Fire hazard; Trisodium orthophosphate: Immediate (acute) health hazard.

**CERCLA:** Trisodium orthophosphate: 5000 pounds**Clean Water Act (CWA) 307:** No products found.**Clean Water Act (CWA) 311:** No product found.**Clean Air Act (CAA) 112 Accidental release prevention:** No products found.**Clean Air Act (CAA) 112 Regulated flammable substances:** No products found.**Clean Air Act (CAA) 112 Regulated toxic substances:** No products found.**State Regulations**: **California Prop. 65:** This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm: None known.

## SECTION 16: OTHER INFORMATION

### Label Requirements

: NO SIGNIFICANT HAZARDS UNDER NORMAL CONDITIONS OF USE. SWALLOWING MAY CAUSE IRRITATION, NAUSEA AND VOMITING. IF TABLET IS BROKEN OR CRUSHED, HAZARDOUS DUSTS MAY BE FORMED. DUST MAY CAUSE SKIN AND EYE IRRITATION. HIGH CONCENTRATIONS OF DUST MAY CAUSE COUGHING AND MILD, TEMPORARY IRRITATION.

### Hazardous Material Information System (U.S.A.)

:

Health	1
Flammability	0
Reactivity	0
Personal Protective Equipment	B

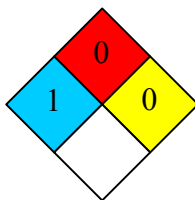
### Hazard Ratings

4 = Extreme  
 3 = Serious  
 2 = Moderate  
 1 = Slight  
 0 = Minimal  
 \* = Chronic

See section 8 for more detailed information on personal protection

### National Fire Protection Association (U.S.A.)

:



### Date of Issue

: June 7, 2011

### Date of Previous Issue

: No previous validation

### Version

: 1

### Disclaimer

All information, recommendations, and suggestions appearing herein concerning this compound are based upon data obtained from the raw material manufacturers and/or recognized technical sources; however, Meras Engineering Inc makes no warranty, representation, or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product. Since actual use by others is beyond our control, Meras Engineering Inc makes no warranty, express or implied, as to the effects of such use, the results to be obtained or the safety and toxicity of the product. The data in this MSDS relate only to the specific product designated herein and do not relate to use in combination with any other material or in any process.