

# CoatMasters®

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## SAFETY DATA SHEET

Complies with Hazard Communication Standard, as revised (HCS) 29 CFR 1910.1200 and the International Chemical Safety Hazards of the Global Harmonizing System (GHS)

### I. IDENTIFICATION (CHEMICAL PRODUCT AND MANUFACTURER'S INFORMATION)

Manufacturer: IMRAE Corporation  
Murrieta, CA, 92562

Product Trade Name: CoatMasters® 4007

Revision: 03/2018

Emergency Telephone: 8:00 AM – 5:00 PM PST Monday-Friday (951) 413-0240

Chemical Family: Lithium Silicate based system.

Use: Densifier, Sealer & Protective Coating (Coating Related Material)

### II. HAZARD(S) IDENTIFICATION

This material is a water based liquid and does not pose any fire hazard or immediate health hazard when handled in accordance to stated guidelines on the following sections. Review the listed information involving material handling and risk of exposures.

**Hazard Statement:** Generally the material is nonhazardous. However, may cause mild eye and skin irritation.  
Acute toxicity, maybe harmful if swallowed. – Category 5

GHS CLASSIFICATION:

Acute Toxicity Oral – Category 5

Acute Toxicity Dermal – Category 5

Acute Toxicity Inhalation – Category 5

Skin Irritation: Reversible, may cause slight irritation – Category 2

Eye Irritation: Reversible, may cause mild eye irritation – Category 2B

GHS label elements (Hazard Pictogram Symbols)

**Signal Word:** Warning



## Hazard Statements:

H315 Causes skin irritation  
H319 Causes serious eye irritation  
H317 May cause an allergic skin reaction

## Precautionary Statement:

Wash thoroughly after handling, wash face, hands and any exposed skin after handling to avoid any mild irritation. Get medical attention if skin irritation persistently occurs.

Do not breathe mist/vapors, avoid breathing odor, and wear protective mask if irritation persists.

Keep container tightly closed after using the material.

Store container tightly closed in cool/well-ventilated place to avoid spills and leaks.

Wear protective gloves and eye/face protection (safety glasses/goggles) to minimize any form of eye/skin irritation.

## III. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Reg No.	Weight %
Lithium Silicate	12627-14-4	< 15%
Potassium Silicate	1312-76-1	< 10%
1,2-Benzisothiazolin-3-One	2634-33-5	< 0.050%
3(2H)-Isothiazolone, 5-Chloro-2-Methyl	18395-30-7	< 0.003%
3(2H)-Isothiazolone, 2-Methyl	2682-20-4	< 0.003%

If CAS Registration Number is listed "Proprietary", the specified chemical has been declared as a TRADE SECRET.

## IV. FIRST AID MEASURES

**Eye Contact:** If eyes are affected, flush with plenty of water for at least 10 minutes. If irritation persists, seek medical attention.

**Inhalation:** No known effects.

**Ingestion:** If ingested, safely induce vomiting and seek physician.

**Skin Contact:** Wash with plenty of water, and soap affected areas. If irritation persists, seek medical attention.

## V. FIRE FIGHTING AND REACTIVITY

**Hazardous Polymerization:** Will not occur

**Hazardous Thermal Decomposition:** May yield Acrylic Polymers

**Suitable extinguishing media:** Foam, extinguishing powder, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.

**Unsuitable extinguishing media:** High pressure water jet.

**Specific hazards in case of fire:** None are known.

**Special protective equipment and precaution for fire fighters:** For fires in enclosed areas, wear self-contained breathing apparatus. Do not inhale combustion gases.

## VI. ACCIDENTAL RELEASE MEASURE

### **Personal Precautions:**

DO NOT eat, drink or smoke while cleaning up. Wear protective clothing, safety glasses and impervious gloves (e.g., neoprene gloves). Ensure adequate ventilation. Avoid all sources of ignition, hot surfaces and open flames.

### **Environmental Precautions:**

DO NOT dispose any liquid portion to any drains leading to the city sewer, and conduct preventive measures to avoid potential spills in the future.

### **Methods for Clean-Up:**

If accidentally released or spilled, immediately wipe, scrape or soak up with inert material (e.g. sand, silica gel, saw dust, and common universal binder), and put in designated container for disposal.

### **Methods for Containment:**

Use an approved container for waste disposal, dried and disposed in accordance to HAZMAT disposal guidelines.

## VII. HANDLING AND STORAGE

### **Precautions for Safe Handling:**

Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists/vapors. Keep container tightly closed, and practice safe handling techniques on lifting. Stir well before using.

Eye and Face Protection: Wear safety glasses with side shields. Use splash resistant goggles for varying wind conditions.

Skin Protection: For prolonged or repeated skin contact wear standard latex gloves.

Work Conditions: Ensure proper air ventilation to avoid concentration build-up

Keep away from children.

### **Conditions for safe storage, including incompatibilities:**

Store at room temperature, and avoid freezing 0°C / 32°F and above 100°C / 212°F.

The product is designed to be used "AS-IS". Do not intermix with any unapproved material.

## VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

Chemical Name	CAS Reg No.	ACGIH (TLV/TWA)	OSHA (PEL/TWA)
Lithium Silicate	12627-14-4	No values found	No values found
Potassium Silicate	1312-76-1	< 20 ppm	< 50 ppm
1,2-Benzisothiazolin-3-One	2634-33-5	No values found	No values found
3(2H)-Isothiazolone, 5-Chloro-2-Methyl	18395-30-7	No values found	No values found
3(2H)-Isothiazolone, 2-Methyl	2682-20-4	No values found	No values found

PEL-OSHA Permissible Exposure Limit; TLV –ACGIH Threshold Limit Value – TWA Time Weighted Average  
OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11<sup>th</sup> Circuit Court of Appeals decision (AFL-CIO v. OSHA effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

### Appropriate Engineering Controls:

Local exhaust ventilation may be necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment.

### Individual protection measures, such as personal protective equipment:

Respiratory protection:

Wear approved respiratory equipment if ventilation is inadequate.

Eye protection:

Safety glasses with side shields or chemical goggles must be worn.

Skin protection:

If prolonged or repeated skin contact is likely, latex gloves should be worn or any chemical resistant gloves.

General safety measures:

Hand and/or face should be washed before breaks at the end of shift. Avoid contact with skin and eyes. Good personal hygiene practices should always be followed.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 275°F

FLASH POINT / NON COMBUSTIBLE: > 300°F

VAPOR PRESSURE (20 C) (MM HG): 8 MBAR VAPOR DENSITY (AIR=1):

FREEZING POINT: 0 °C; 32 °F

PHYSICAL STATE: Clear / Opaque milky liquid

ODOR: light odor

pH: 9-10

EVAPORATION RATE (BUTYL ACETATE=1): <1.0 Water

Specific Gravity: 1.050-1.070

VOC (G/L): 0 grams / liter

## X. STABILITY AND REACTIVITY

Chemical stability: No decomposition, avoid extreme heat above 212°F.

Possibility of hazardous reactions: None are known. The product is chemically stable.

Conditions to avoid: Heat, sparks, flame, and build-up of static electricity.

Materials to avoid: Metal salts.

Hazardous decomposition products: Carbon Dioxide, Carbon Monoxide, Hydrocarbons.

## XI. TOXICOLOGICAL INFORMATION

### Primary routes of exposure:

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects:

Assessment of acute toxicity: Virtually nontoxic after a single ingestion; virtually nontoxic after a single skin contact; virtually nontoxic by inhalation. Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Oral:

Type of value: LD50

Species: rat

Value: > 2,000 - 10,000 mg/kg

Inhalation:

Type of value: ATE

Value: > 5 mg/l

Exposure time: 4 h

Determined for mist

Dermal:

Type of value: ATE

Value: > 5,000 mg/kg

Assessment other acute effects:

Assessment of STOT single

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion:

Assessment of irritating effects: Not irritating to eyes and skin, may cause mechanical irritation. If the product adheres to skin, irritation may occur when it dries. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Skin:

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Eye:

Species: rabbit

Result: non-irritant  
Method: OECD Guideline 405

**Sensitization:**

Assessment of sensitization: The product contains a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1) (CAS-No.:55965-84-9). The substance may cause sensitization of the skin in particularly sensitive individuals. Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.

**Aspiration Hazard:**

Not applicable

**Chronic Toxicity/Effects**

**Repeated dose toxicity:**

Assessment of repeated dose toxicity: No adverse effects were observed after repeated exposure in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Genetic toxicity:**

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Carcinogenicity:**

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect.

**Reproductive toxicity:**

Assessment of reproduction toxicity: Not expected to cause reproductive toxicity (based on composition).

**Teratogenicity:**

Assessment of teratogenicity: The data available for an assessment of the effect of the substance on developmental toxicity are not sufficient for a proper evaluation.

**Experiences in humans:**

According to experience, the product is considered to be harmless to health if used in the correct manner.

**Other Information:**

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The statement was derived from products of similar composition.

**Symptoms of Exposure:**

No significant symptoms are expected due to the non-classification of the product.

## **XII. ECOLOGICAL INFORMATION**

**Toxicity**

**Toxicity to fish:**

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203, static)

**Aquatic invertebrates:**

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

**Aquatic plants:**

EC50 (72 h) > 100 mg/l, Scenedesmus subspicatus (OECD Guideline 201)

Nominal concentration

**Microorganisms/Effect on activated sludge**

**Toxicity to microorganisms**

DIN EN ISO 8192-OECD 209-88/302/EEC, P. C. activated sludge, domestic/EC20 (0.5 h): > 100 mg/l

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

Elimination information

> 70 % DOC reduction (OECD 302B; ISO 9888; 88/302/EEC, part C) Easily eliminated from water.

### **Bioaccumulative potential**

Bioaccumulation potential:

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

### **Mobility in soil**

Assessment transport between environmental compartments:

No data available.

### **Additional information**

Adsorbable organically-bound halogen (AOX):

No data available.

Other ecotoxicological advice:

Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.

Ecological data are determined by analogy.

## **XIII. DISPOSAL CONSIDERATION**

### **Waste disposal of substance:**

Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited by local regulation. The product is suitable for processing at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

### **Container disposal:**

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

## **XIV. TRANSPORT INFORMATION**

This product is not regulated for shipping either by ground or by air.

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Class 55

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

## **XV. REGULATORY INFORMATION**

### **US Regulatory Information**

CERCLA INFORMATION (40CFR302.4): The release of this material to air, land, or water is not reportable to the National Response Center under the Comprehensive Response, Compensation, and Liability Act or to any other local agencies.

CLEAN AIR ACT

CLEAN WATER ACT:

SARA (311,312): This product does not contain any hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA.

SARA (313): This product does not contain any hazardous chemicals under the reporting requirement of Section 313 of Title III of the Superfund Amendments (40CFR372).

CALIFORNIA PROPOSITION 65: This product does not contain any intentionally-added ingredient covered by the California "Safe Drinking Water and Toxic Reinforcement Act of 1986".

## **XVI. OTHER INFORMATION**

These information are all offered in good faith, IMRAE Corporation disclaims any warranty, liability, or any injury that may result to the inappropriate or misuse of the material other than as intended for the use of the product. It is the responsibility of the user to examine the product, and ensure all applicable laws and regulations are met at all levels from city, county, state, and federal guidelines in terms of handling, safety, and disposal.

All data reported are typical values, and not to be used as product specifications, see Technical Data Sheet for more detailed information or contact IMRAE for specific questions. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable.

HMIS:

Flammability	0	Reactivity	0	Health	1
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NFPA:

Flammability	0	Reactivity	0	Health	1
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