

Material Safety Data Sheet

Revised 12/98

Reviewed 1/04

Section I

Manufacturer's Name
Coatings For Industry, Inc.

Emergency Response #
1-800-535-5053

Address
319 Township Line Road
Souderton, PA 18964

Non-Emergency #
215-723-0919

Chemical Name & Synonyms
Alkali Metal Silicate/Aluminum
Compound

Product and/or Trade Name
Alesal 505

Chemical Family
Alkali Metal Silicate/
Aluminum Compound

Type, Grade and/or Class
Water Base Inorganic Coating

Section II - Composition

	%	TLV	CAS #
Alkali Metal Silicate	11.6	PEL (OSHA) Particulates (Not Otherwise Regulated) 15 mg/m ³ , 8 hr. TWA, total dust 5 mg/m ³ , 8 hr. TWA, respirable dust	1312-76-1
Aluminum Powder	47.4	30 mpc for 10 milligrams per carbimil meter	7429-90-5
Water	41.0	N/A	7732-18-5

Section III - Physical Properties

Boiling Point ~~~~~212° F.
Specific Gravity (H₂O = 1) ~~~~~ 1.55
Evaporation Rate ~~~~~ Not Applicable
Decomposition Rate ~~~~~ Not Applicable
Vapor Density (Air = 1) ~~~~~ Not Applicable
Freezing Point ~~~~~ 32° F.
Critical Temperature ~~~~~ Not Applicable

Section III - Physical Properties (cont.)

Viscosity (#2 Zahn Cup) ~~~~~	16 to 18 seconds
Vapor Pressure (mm hg.) ~~~~~	Not Applicable
% Volatile by Volume ~~~~~	65 %
pH ~~~~~	11
Magnetism (milligauss) ~~~~~	Not Applicable
Solubility in Water ~~~~~	Appreciable
Autoignition Temperature ~~~~~	Not Applicable
Critical Pressure ~~~~~	Not Applicable
Corrosion Rate ~~~~~	Not Applicable

Section IV - Fire and Explosion Hazard Data

Flash Point ~~~~~	None
Flammable Limits ~~~~~ LEL ~~~~~	Not Applicable
UEI ~~~~~	Not Applicable

Extinguishing Media - Use sand or carbon dioxide (CO2).
Special Fire Fighting Procedures - Do not use extinguishing media containing water as a reaction with aluminum may produce hydrogen gas. Wear protective clothing and NIOSH/OSHA approved positive pressure self contained breathing apparatus in fire conditions.
Unusual Fire and Explosion Hazards - If material is allowed to evaporate to produce dry aluminum, the aluminum can then react with water to produce hydrogen gas.

Section V - Health Hazard Data

Potential Health Effects - May cause skin and eye irritation.
Human Health Effects - Human health effects of overexposure by inhalation, ingestion, or skin or eye contact may initially include : eye irritation with discomfort, tearing, or blurring of vision; skin irritation with discomfort or rash. Inhalation of dried-down material may cause irritation of the upper respiratory system.
Carcinogenicity Information - None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES -

Skin Contact -
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Wash clothing before reuse.

Eye Contact -
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

FIRST AID MEASURES (cont.)

Ingestion -

If swallowed, do not induce vomiting. Give large quantities of water. Call a physician. Never give anything by mouth to an unconscious person.

Inhalation -

If the product is allowed to dry and large amounts of dust are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Section VI - Reactivity Data

Stability ~~~~~ Stable
Conditions to Avoid (stability) ~~~~~ Acids or strong alkali
Incompatibility (materials to avoid) ~~~~~ Acids or strong alkali
Hazardous Decomposition Products ~~~~~ None
Hazardous Polymerization ~~~~~ Will not occur
Conditions to Avoid (polymerization) ~~~~~ Not Applicable

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled -
Use absorbing material to soak up.
Waste Handling and Disposal Method -
Filter to remove aluminum and discard this as solid chemical waste in accordance with federal, state and local environmental control regulations.

Section VIII - Occupational Protective Measures

Respiratory Protection - Cartridge type mask such as Devilbiss model #MSP-508 or equal.
Ventilation - Local exhaust if spray applying.
Protective Gloves - Rubber-liquid proof.
Eye Protection - Chemical safety goggles.

Section IX - Special Precautions

Handling and Storage Precautions - Keep from strong alkali or acid as reaction with aluminum may produce hydrogen gas.
Other Precautions - Keep from freezing.

Section X - Transportation

Applicable Regulations ~~~~~ Not Regulated
Shipping Name ~~~~~ Class 55, Paint
I.D. Number ~~~~~ N/A
Report Qty. ~~~~~ N/A

Section X - Transportation (cont.)

Hazard Class ~~~~~ Non-hazardous
Labels Required ~~~~~ None
Unit Container ~~~~~ One Gallon Unit
D.O.T. SPSC Container ~~~~~ N/A
D.O.T. Exempt/DOD CCN ~~~~~ N/A
Limited Qty. ~~~~~ N/A
Aerosol Propellants ~~~~~ None

This product contains aluminum metal powder which is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372.

**** This product contains no known or suspect carcinogens. ****

NOTICE : This information is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Coatings For Industry, Inc. assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material, such vendees or users assume all risks associated with the use of the material. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.