Safety Data Sheet

Section 1 – Identification of the substance/mixture and of the company undertaking

Trade Name: Alseal 5K

Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Coating composition for industrial use only.
Uses advised against: None known

Details of the supplier of the safety data sheet
Address: Coatings For Industry, Inc.
319 Township Line Road
Souderton, PA 18964
USA
Telephone: +1 215-723-0919
Fax: +1 215-723-0911
E-mail: cs@coatingsforindustry.com

Emergency telephone number
24hr emergency contact: +1 352-323-3500

Section 2 – Hazards Identification

Classifications of the substance or mixture
GHS Classification: Category 2 Skin Irritant
Category 2 Eye Irritant

Hazards Summary: Alkaline.
Irritating to eyes and skin.

Label elements
Hazard pictograms:

Signal words: Warning

Hazard statements: H315: Causes skin irritation
H319: Causes serious eye irritation

Precautionary statements:

P262: Do not get in eyes, on skin, or on clothing.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards Not Applicable

Section 3 – Composition/information on ingredients

Regulation (EC) No. 1272/2008 (CLP)

Ingredients	% W/W	CAS No.	EINECS No./ REACH Registration	Hazard symbols and hazard statements
Metal silicates	10	1344-09-8	EC No. 215-687-4	H315: Skin Irrit. 2 H318: Eye Irrit. 2 H335: STOT SE 3
Aluminum powder	43	7429-90-5	EC No. 231-072-3	
Water	47	7732-18-5	EC No. 231-791-2	

EC Classification No. 67/548/EEC

Section 4 – First aid measures

Description of first aid measures

Eye Contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
Skin Contact: Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.
Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention.
Ingestion: 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.

Most important symptoms and effects, both acute and delayed

Alkaline.
Irritating to eyes and skin.

Indication of any immediate medical attention and special treatment needed

Obtain immediate medical attention.

Section 5 – Fire fighting measures

Suitable extinguishing media
Dry sand; Metal fire powders

Extinguishing media that must not be used for safety reasons
Water; Carbon dioxide; Foam; Halones; ABC powder

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
In case of contact with acidic or alkaline media, aluminium powder will react under hydrogen formation.

Special protective equipment for fire-fighters
Use self-contained breathing apparatus. Wear protective clothing.

Other information
Do not disperse and dissipate dust from dried coaging – explosion hazard!

Section 6 – Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing. Wear eye/face protection.

Environmental precautions
Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Methods and materials for containment and cleaning up
Caution - spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery.

Reference to other sections
See also Section 8

Section 7 – Handling and storage

Precautions for safe handling
Avoid contact with eyes, skin and clothing.
Avoid generation of mist or dust. Provide adequate ventilation.
Emergency shower and eye wash facilities should be readily available.
See Also Section 8.
Wear protective equipment to comply with good occupational hygiene practice.
Do not eat, drink or smoke at the work place.

Conditions for safe storage, including any incompatibilities
Keep at a temperature not exceeding (°C): 50 .
Do not allow material to freeze.
Provide an adequate bund wall.
Unsuitable containers: Aluminium
See Also Section 10.

Section 8 – Exposure controls / personal protection

Control parameters

SUBSTANCE	OCCUPATIONAL EXPOSURE LIMITS
Metal silicates	No occupational exposure limit assigned
Aluminum Powder	10 mg/m3 TWA for metal powder, total inhalable dust

Exposure controls
Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

Appropriate engineering controls
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Personal Protection

Respiratory protection:	Respiratory protection not normally required. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.
Eye/face protection:	Chemical goggles (EN 166).
Skin protection:	Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3, level 6 breakthrough time (>480min). Wear suitable overalls.

Environmental Exposure Controls
Avoid release to the environment.

Section 9 – Physical and chemical properties

Information on basic physical and chemical properties
Appearance~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ Gray liquid
Odor~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~Odorless
Boiling Point ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~212° F.
Specific Gravity (H2O = 1) ~~~~~~~~~~~~~~~~~~~ 1.5
Evaporation Rate ~~~~~~~~~~~~~~~~~~~~~~~~~~~ Not Applicable
Decomposition Rate ~~~~~~~~~~~~~~~~~~~~~~~~~ Not Applicable
Vapor Density (Air = 1) ~~~~~~~~~~~~~~~~~~~~~ Not Applicable
Freezing Point ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ 32° F.
Critical Temperature ~~~~~~~~~~~~~~~~~~~~~~~~ Not Applicable
Viscosity ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ Thin liquid
Vapor Pressure (mm hg.) ~~~~~~~~~~~~~~~~~~~~ Not Applicable
% Volatile by Volume ~~~~~~~~~~~~~~~~~~~~~~ 72 %
pH ~~~~~~ 11
Magnetism (milligauss) ~~~~~~~~~~~~~~~~~~~~~ Not Applicable
Solubility in Water ~~~~~~~~~~~~~~~~~~~~~~~ Appreciable
Autoignition Temperature ~~~~~~~~~~~~~~~~~~~ Not Applicable
Critical Pressure ~~~~~~~~~~~~~~~~~~~~~~~~~~ Not Applicable
Corrosion Rate ~~~~~~~~~~~~~~~~~~~~~~~~~~~~ Not Applicable

Section 10 – Stability and reactivity

Reactivity
See “Possibilty of hazardous reactions”

Chemical stability
Stable.

Possibility of hazardous reactions
When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. This product will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Avoid strong acids or alkalis. Can react with sugar residues to form carbon monoxide.

Conditions to avoid
See “Possibilty of hazardous reactions”
Incompatible materials
See “Possibilty of hazardous reactions”

Hazardous decomposition product(s)
In case of contact with strong acidic or alkaline materials, aluminum powder will react to form hydrogen.

Section 11 – Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion:	A large dose may have the following effects: headache, nausea, dizziness, convulsions, kidney damage.
Inhalation:	Mist is irritant to the respiratory tract.
Skin Contact:	Repeated and/or prolonged skin contact may cause slight irritation.
Eye Contact:	Liquid or mist may cause discomfort and mild irritation.

Skin corrosion/irritation
Irritating to skin.

Serious eye damage/irritation
Irritating to eyes.

Sensitisation
Not sensitising.

Mutagenicity
No data.

Carcinogenicity
IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

Reproductive toxicity
No data.

STOT - single exposure
Not classified.

STOT - repeated exposure
Not classified.

Aspiration hazard
Not classified.

Section 12 – Ecological information

Toxicity
No data.

Persistence and degradability
Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential
Inorganic. The substance has no potential for bioaccumulation.

Mobility in soil
This product is water soluble and may spread in water systems. Will likely be mobile in the environment due to its water solubility. Highly mobile in soils.

Results of PBT and vPvB assessment
Not classified as PBT or vPvB.

Other adverse effects
The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

Section 13 – Disposal Considerations

Waste treatment methods

Product:	Allocation of waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.
Packaging:	Residuals must be removed from packaging and when emptied completely, disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Section 14 – Transport information

UN number: Not applicable.
Proper Shipping Name: Not applicable.
Transport hazard class(es): Not applicable.
Packing group: Not applicable.
Environmental hazards: Not classified as a Marine Pollutant.
Special precautions for user: No special packaging requirements.
Unsuitable containers: Aluminium
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable.

Section 15 – Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture
TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.
German Water Hazard Classification VwVwS: Product ID number 1314, WGK class 1 (low hazard to water).
SARA TITLE III: This material is not a listed Toxic Chemical subject to the reporting requirements of SARA Title III §313 and 40 C.F.R. Part 372. Hazard Categories under SARA Title III §§311/312: Acute.

Chemical Safety Assessment
Not available.

Section 16 – Other Information

Data referenced in this eSDS is from company-owned information and from data legitimately accessed by CFI through membership of Industry Consortia or other agreements. This includes data relating to toxicology, ecotoxicology, DNELs, PNECs and other information in this eSDS and its annex.

This SDS was created: 08/2014

The following sections contain revisions or new statements: All sections revised

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.****

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