

Safety Data Sheet

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

Trade Name: Aseal 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

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 coagling – 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 “Possibility 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 “Possibility of hazardous reactions”

Incompatible materials

See “Possibility 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

IATA: Not regulated for transport by air

IMDG: Not regulated for transport by sea

DOT: Not regulated for surface transport

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.****

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

Revision: GHS 1.1

Date of issue: 06/2015

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.