

Product Name: FireSeal 2000
Manufacturer Name: POR-15, Inc. / Permanent Painted Coatings
General Use: Putty, Filler, & Sealer
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Poisons Information Further Advice: 131 126

Manufacturer MSDS Revision Date: 17.07.09

Physical Description / Properties

Physical State/Appearance: Putty
Colour: Gray
Odour: Odourless
Vapour Pressure: Not Determined
Vapour Density: 0.6 (Air = 1)
Flash Point: Not Applicable
Upper Explosive Limit: Not Applicable
Lower Explosive Limit: Not Applicable
Boiling Point: Not established
Melting Point: 2700 °F
Solubility: Negligible In water: 100%
Density: 13 pounds/gallon
Evaporation Point: < 1.00 (Butyl Acetate = 1)
Volatile Organic Compound Content: 0%
Molecular Formula: Mixture
Molecular Weight: Varies

Ingredients

Chemical Name	CAS#	Lower Percent	Upper Percent
Stainless Steel	65997-19-5		
Silicate Solution	1312-76-1		

*Note: The above components are suspended in an inorganic binder system; therefore, no free dusts exist. This composition is a Trade Secret which performs in a unique manner providing special attributes not available competitively.

SECTION 2 : HEALTH HAZARD INFORMATION

Catalogue No.: (N/A)

Health Effects

Emergency Overview: Hazardous according to criteria of Work safe Australia

Applies to All Ingredients:

Potential Health Effects:

Eye Contact: Eye irritation: Causes eye irritation; may cause pain, redness, and tearing.

Skin Contact: Dermal exposure: Causes skin irritation; may cause itching and burning of skin. May aggravate existing skin diseases.

Inhalation: No free dust is present. No VOC's to cause irritation. In extreme cases such as being present in a fire may aggravate asthma and lung disease. When machining, free dust is present and may cause irritation.

Ingestion: Causes irritation to the oesophagus and stomach; may cause nausea, vomiting, and diarrhoea.

First Aid

Eye Contact: Immediately flush eyes with plenty of water for 15 to 20 minutes occasionally lifting eyelids. Get medical attention, if irritation or symptoms of overexposure persists.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing thoroughly before re-use.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention if necessary.

Ingestion: If swallowed, immediately drink 2 glasses of water and induce vomiting. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person.

Stainless Steel :

Silicate Solution :

SECTION 3 : PRECAUTIONS FOR USE

Catalogue No.: (N/A)

Engineering Controls / Personal Protection / Flammability

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Ventilation System: Use in well-ventilated areas only. Have adequate general exhaust.

Skin Protection Description: Cover as much of the exposed skin area as possible with appropriate clothing. If skin creams are used, keep the area covered to a minimum.

Hand Protection Description: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166. Contact lenses should not be worn.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air

purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, spray painting, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective:

Eyewash and deluge shower should be available.

Exposure Standards

Ingredient Guidelines

Ingredient: Silicate Solution

Guideline Type: OSHA PEL-TWA
Guideline Type: ACGIH TLV-TWA
Guideline Type: Australian Exposure Standard

Ingredient: Stainless Steel

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SECTION 4 : SAFE HANDLING INFORMATION

Catalogue No.: (N/A)

Storage And Transport

Storage: Storage Temperature: 45 deg F - -95 deg F
Do not allow freezing.

Chemical Stability: Stable

Conditions to Avoid: Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc in an alkaline environment.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Hydrogen; see above "conditions to avoid"

DOT Shipping Name: Non-Regulated

DOT Hazard Class: Non-Regulated

Spills And Disposal

Spill Cleanup Measures: Not Applicable

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines. Triple-rinse drums prior to offering for recycle.

Fire / Explosion Hazard

Flash Point: Not Applicable

Upper Flammable or Explosive Limit: Not Applicable

Lower Flammable or Explosive Limit: Not Applicable

Extinguishing Media: Use dry chemical, foam, carbon dioxide, water fog or other material suitable for

	surrounding materials.
Fire Fighting Instructions:	None
Protective Equipment:	As in any fire wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	None

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OTHER INFORMATION

Catalogue No.: (N/A)

[Stainless Steel](#) :

[Silicate Solution](#) :

MSDS Revision Date: 17.07.09

Disclaimer:

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References:

1. American Chemical Society, STN Easy Online Database
2. Brethericks Reactive Chemical Hazards Database. Version 2.
3. Gassarett and Doulls Toxicology, The Basic Science of Poisons.
4. Hawleys Condensed Chemical Dictionary, Thirteenth Edition
5. IARC monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, WHO International Research on Cancer.
6. Industrial Hygiene and Toxicology, by F.A. Patty.
7. National Library of Medicine, Department of Health and Human Services, Hazardous Substances Data Bank (HSDB).
8. National Toxicology Program (NTP) Eighth Report on Carcinogens, 1997.
9. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS) and Pocket Guide to Chemical Hazards.
10. OSHA Hazard Communication Standard, 1910.1200 and Z Tables.
11. Sax Dangerous Properties of Industrial Materials. Tenth Edition.
12. The Merck Index: An Encyclopaedia of Chemicals and Drugs. Merck and Company. Twelfth Edition 1998.
13. Threshold Limit Values for Chemical Substances and Physical Agents in the Work Environmental and Biological Exposure Indices. TLV Booklet, 2001.

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