



1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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TRADE NAME: POLYFILL SM HYDRATED ALUMINA/ VINYL-SILOXANE CO-POLYMER	MSDS NUMBER: 5150
CHEMICAL NAME: Reaction Product of Hydrated Alumina with an oligomer formed from the reaction of Vinyl and Alkylsiloxanes	SYNONYMS: Hydrated Alumina/Vinylsiloxane Co-Polymer
PREPARED BY: Bureau Veritas North America, Inc.	DATE OF ISSUE: 10/19/09 DATE OF LATEST REVISION: -----

2. INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>Percent</u>	<u>ACGIH (TLV)</u>	<u>OSHA (PEL)</u>	<u>Units</u>
1. Reaction Product of Hydrated Alumina with an oligomer formed from the reaction of Vinyl and Alkylsiloxanes	443780-22-1	100	Not Est.	Not Est.	Not Est.

Particulates Not Otherwise Specified [ACGIH]/Classified [OSHA] (PNOS/PNOC) best describes component 1. The ACGIH has established a recommended TLV exposure limit of 10 mg/m³ for total (inhalable) particulates and 3 mg/m³ for respirable particulates, while OSHA has established a mandated PEL of 15 mg/m³ for total particulates and 5 mg/m³ for respirable particulates. See Appendix B of the current ACGIH TLV Book for additional information regarding PNOS. The hydrated alumina used in the preparation of the product may contain up to 2% of Sodium Carbonate [497-19-8] as an impurity. See Section 11. This material would be best described by the PNOS/PNOC classification cited above.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The product is a white powder. Dusts may cause irritation of the eyes, nose, skin, mucous membranes, and respiratory tract. Pick up released materials and place in appropriate containers for reuse or disposal. Wear appropriate personal protective equipment if significant amounts of dusts or particulate matter may be present. Product involved in fire situations may release toxic combustion products including dense smoke, low molecular weight organic species of unknown composition and toxicity, and metal oxide fumes. Wear appropriate personal protective equipment and keep unnecessary individuals up wind of the area. Cool product in or near fires with a water spray or fog if compatible with the other materials involved in the fire. Product may react slowly with water to release ethanol. Any wastes generated during cleanup operations should be evaluated with respect to hazardous and solid waste regulations and disposed of in a properly permitted facility in accordance with all local, state, and federal regulations.

3. HAZARDS IDENTIFICATION - Continued

POTENTIAL HEALTH EFFECTS:

Eye: Dusts and particulate matter may cause irritation.

Skin Contact: Dusts and particulate matter may cause irritation.

Skin Absorption: Not expected to be a significant route of entry.

Ingestion: Not expected to be a significant route of entry. Ingestion of large quantities of product may cause gastrointestinal distress.

Inhalation: Dusts and particulate matter may cause irritation of the mouth, throat, mucous membranes, and respiratory tract.

Chronic & Carcinogenicity: Prolonged contact with dusts and particulate matter may cause dermatitis. Prolonged exposure to high concentrations of product dusts or particulate matter may cause a benign pneumoconiosis with resultant decrease in lung function. See Section 11.

Prolonged exposures to high concentrations of particulate matter and fumes and vapors may possibly aggravate pre-existing skin and lung disorders.

4. FIRST AID MEASURES

Inhalation: Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

Eyes: Flush with tepid water for at least 20 minutes, holding the eyelids wide open. Seek medical attention if irritation develops.

Skin: Wash thoroughly with mild soap and water. Seek medical attention if irritation develops. Remove any contaminated clothing and launder thoroughly before reuse.

Ingestion: Not expected to be an important route of entry into the body. If large amounts of particulate matter are ingested, it may cause gastrointestinal distress. Seek medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: NA	LEL: NA	UEL: NA	AUTO IGN. TEMP.: ND
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Use water, dry chemical, or carbon dioxide to extinguish fires involving the product. Product in or near fires should be cooled with a water spray or fog, if compatible with the other materials involved in the fire. A self contained breathing apparatus (SCBA) operating in the positive pressure mode and full fire fighting protective clothing should be worn for combating fires. See Section 10 for decomposition products that might be expected in fire situations.

6. ACCIDENTAL RELEASE MEASURES

Pick up product and return to original packaging if reusable. If not reusable, place in appropriate containers for disposal. Any wastes generated during cleanup operations should be evaluated with respect to hazardous and solid waste regulations and disposed of in a properly permitted facility in accordance with all local, state, and federal regulations.

7. HANDLING AND STORAGE

Store product at ambient temperatures out of contact with water. Keep from contact with strong acids and oxidizers. Dusts and/or particulate matter that may be generated during handling or processing should be cleaned up by vacuuming or wet mopping.

8. EXPOSURE CONTROL - PERSONAL PROTECTION

ENGINEERING CONTROLS: Not generally required. If significant amounts of dusts or particulate matter are generated during processing or handling, the need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Design details for local exhaust ventilation systems may be found in the latest edition of "Industrial Ventilation: A Manual of Recommended Practice", published by the ACGIH Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48910. Local exhaust ventilation systems should be designed by a professional engineer.

RESPIRATORY: Respiratory protection is not normally required. If appreciable dusts or particulate matter are generated during handling or processing, the operation should be evaluated by a professional industrial hygienist to determine the need for respiratory protection. If respiratory protection is deemed necessary, use, as a minimum, a NIOSH approved respirator equipped with cartridges approved for organic vapors, acid gases, and particulate matter and all provisions of OSHA's Respiratory Protection Standard (29 CFR 1910.134) should be followed.

EYE PROTECTION: Where eye contact is possible with particulate matter, safety glasses with side shields are recommended.

PROTECTIVE GLOVES: Polymeric gloves (i.e. PVC, natural rubber, nitrile rubber, etc.) are recommended to prevent irritation.

GENERAL: A polymeric coated apron or other body covering, see above, is recommended where there is a possibility of regular work clothing becoming contaminated with the product. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & PHYSICAL STATE: White Powders or Pellets	MELT POINT: ND
VAPOR DENSITY (AIR = 1): NA	OCTANOL/WATER PARTITION COEFFICIENT: NA
VAPOR PRESSURE: NA	EVAPORATION RATE (BuOAc = 1): NA
ODOR: None to Slight Paint-like	SPECIFIC GRAVITY/BULK DENSITY: 2.3 – 2.5 g/cc
% VOLATILE BY VOLUME: Not Volatile	BOILING POINT: NA
% SOLUBILITY IN H2O: Insoluble	pH: NA
OTHER: NA	

10. STABILITY AND REACTIVITY

STABILITY & POLYMERIZATION: Hazardous polymerization will not occur.

INCOMPATIBILITY (CONDITIONS TO AVOID): Avoid contact with strong acids, caustics, and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: May produce dense smoke, oxides of carbon, low molecular weight organic species whose composition and toxicity has not been characterized, and metal oxide fumes. The sodium carbonate impurity in the hydrated alumina component of the product will react with acids to liberate carbon dioxide.

SPECIAL SENSITIVITY: Product will react slowly with water to release ethanol [64-17-5].

11. TOXICOLOGICAL INFORMATION

Detailed toxicological studies have not been conducted on the product. It is, however, expected that the acute toxicity (LD₅₀) of the product is in excess of 2,000 to 3000 mg/kg.

As stated in Section 10 the vinylalkylsiloxane component will react slowly with water to form ethanol which can have an adverse effect on the liver and kidneys. It is also a central nervous system depressant and can also have adverse effect on the developing fetus. Under normal and expected conditions of use, it is not expected that concentrations of ethanol will be formed that will have the effects discussed above.

12. ECOLOGICAL INFORMATION

Detailed studies have not been conducted concerning the environmental fate of the product. It is, however, not expected to present a hazard to aquatic and terrestrial flora and fauna.

13. DISPOSAL CONSIDERATIONS

The product is not considered hazardous under current EPA hazardous waste regulations. Recycling is the preferred method of disposal. Alternatively, the product may be disposed of in an approved landfill. All wastes should be evaluated in conjunction with applicable solid and hazardous waste regulations and disposed of as appropriate.

Empty containers will contain product residues. Observe proper safety and handling precautions. Do not allow empty containers to be used for any purpose except to store and ship original product.

It is the user's responsibility to dispose of all wastes in accordance with all local, state, and federal regulations at properly permitted or authorized facilities.

14. TRANSPORTATION INFORMATION

DOT Classification: Not currently regulated under Department of Transportation regulations.

15. REGULATORY INFORMATION

OSHA Hazard Communication Classification for dusts and particulate matter: Irritant, Skin Hazard, Lung Hazard.

SARA Title III Classification for dusts and particulate matter: Acute Health Hazard.

WHMIS Classification: Non-hazardous

16. OTHER INFORMATION

Not Est. = Not Established; N.A. = Not Applicable; N.D. = Not Determined. HMIS Classifications: Health = 1; Fire = 1; Reactivity = 1. All components of the product are included in the Toxic Substances Control Act (TSCA) inventory.

Important Notice From Custom Grinders Sales, Inc.. The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The opinions expressed herein are those of qualified experts within Custom Grinders Sales, Inc. We believe that the information contained herein is current as of the date of issue of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Custom Grinders Sales, Inc., it is the user's obligation to determine conditions of safe use of the product.

Custom Grinders Sales, Inc, requests that the users of this product study this Material Safety Data Sheet and become aware of product hazards and safety information. To promote safe use of this product, users should notify their employees, agents, and contractors of the information on this Material Safety Data Sheet and any product hazards and safety information.