



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Hi-Sil® SAS
PRODUCT ID: 0634
SYNONYMS: Sodium Aluminum Silicate; Sodium Silico Aluminate
REVISION DATE: 04/24/1997
EDITION NO.: 001

PPG Industries, Inc.
One PPG Place, Pittsburgh, PA 15272, USA

24-hour Emergency Telephone Number: 1-304-843-1300

For Product Information (8am-5pm Eastern time): 1-800-243-6745 (Silica)

PREPARER: R. Kenneth Lee, Manager, Product Safety

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material/CAS Number	Percent
Sodium Aluminum Silicate 1344-00-9	100

Contains no detectable crystalline silica (detection limit <0.01% by weight).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION! May cause irritation.

Precautions: Avoid contact with eyes; may cause irritation and pain. Avoid prolonged, repeated, or excessive contact with skin; may cause irritation and discomfort. Avoid prolonged or repeated inhalation of dust; may irritate the respiratory tract. Wear respiratory protection when dust exposure

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is above permissible exposure limits. Use with adequate ventilation. Ventilation must be sufficient to limit employee exposure to this product below permissible exposure limits. Observance of lower limits is advisable. Wash thoroughly every day after work. Do not eat, drink or smoke in work area.

4. FIRST AID MEASURES

INHALATION: If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

EYE/SKIN CONTACT: In case of contact, immediately flush eyes and skin with plenty of water (soap and water for skin) for at least 15 minutes. Get medical attention if irritation persists.

INGESTION: Not a likely route of exposure.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT: None

FLAMMABLE LIMITS IN AIR - LOWER (%): NA

FLAMMABLE LIMITS IN AIR - UPPER (%): NA

EXTINGUISHING MEDIA: NA

SPECIAL FIREFIGHTING PROCEDURES: None known.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Vacuum spilled material and place in closed plastic bags for disposal.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Store in a dry area. Product surface alterations caused by calcining or mixing with additives may alter toxicological properties.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible Exposure Limits:

8-hour Time Weighted Average (TWA); 15-minute Short-Term Exposure Limit (STEL)

OSHA: No occupational exposure limits have been established by OSHA.

ACGIH: 10 mg/m³ (nuisance particulate) TWA.

RESPIRATORY PROTECTION: Use NIOSH approved dust filter respirator for exposure above permissible exposure limits. The respiratory use limitations made by NIOSH or the manufacturer must be observed. Respiratory protection programs must be in accordance with 29 CFR 1910.134 or applicable governmental regulations.

VENTILATION: General or local exhaust sufficient to maintain employee exposure below permissible exposure limits.

EYE AND FACE PROTECTION: If eye exposure to powder is likely, use tight fitting protective goggles.

PROTECTIVE GLOVES: Cloth. Leather. Rubber.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, or chemical suits should be used when necessary to prevent skin contact. Personal protective clothing and use of equipment must be in accordance with 29 CFR 1910.132 (general requirements), .133 (eye and face protection), and .138 (hand protection) or applicable governmental regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: NA
VAPOR DENSITY (Air=1): NA
SPECIFIC GRAVITY (Water=1): 2.1
pH: 10.3-10.5 (5% slurry)
FREEZING/MELTING POINT: NA
SOLUBILITY (wt.% in water): Essentially Insoluble
BULK DENSITY: Variable
VOLUME % VOLATILE: NA
VAPOR PRESSURE: NONE
EVAPORATION RATE: NA
HEAT OF SOLUTION: NA
PHYSICAL STATE: Powder
ODOR: Odorless
COLOR: White

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (MATERIALS TO AVOID):

High temperatures (>800C) treatment (calcining). Avoid alteration of product properties before use. Calcining, which may result in crystalline formation, or mixing with additives may alter toxicological properties. Reacts exothermically on contact with water. Avoid strong acids and alkalis.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Thermal decomposition products may include toxic sodium oxide.

11. TOXICOLOGICAL INFORMATION

ACUTE INHALATION LC50: ... >2.8 mg/l (1 hour) (rat) Nuisance dust.

ACUTE ORAL LD50: > 31,600 mg/kg (rat) Not significantly toxic.

CHRONIC EFFECTS/CARCINOGENICITY: This product is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

MEDICAL CONDITIONS AGGRAVATED: None known.

EFFECTS OF OVEREXPOSURE:

ACUTE: Excessive contact with powder can cause drying of the mucous membranes of the nose, eyes, and throat due to absorption of moisture and oils. This material can also cause nasal irritation and nosebleeds. Eye contact with powder can result in mild irritation.

CHRONIC: Prolonged and repeated exposure to some silicates produces pneumoconiosis. PPG recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

No data at this time

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Waste from this product may be disposed of in a sanitary landfill if state and local regulations permit. Care should be taken to avoid creation of dust during disposal operations.

14. TRANSPORT INFORMATION

USA DOT DESCRIPTION:

Proper Shipping Name: Not regulated

15. REGULATORY INFORMATION

USA TSCA: This product is listed on the TSCA Inventory.

EUROPE EINECS: This product is listed on EINECS. (215-684-8)

CANADA DSL: This product is listed on the Canadian DSL.

AUSTRALIA AICS: This product is listed on AICS.

KOREA ECL: This product is listed on ECL.

JAPAN MITI: This product is listed on MITI. (ENCS #1-788)

SARA TITLE III:

SARA (311, 312) Hazard Class: Acute Health Hazard.

SARA (313) Chemicals: Not listed.

SARA Section 302: Not listed.

CALIFORNIA PROPOSITION 65: Not listed.

HAZARD RATING SYSTEM (HMIS/NFPA):

Health 1, Flammability 0 , Reactivity 0

16. OTHER INFORMATION

NA = Not available