

### SAFETY DATA SHEET

### 1. Identification

**Product identifier** Flosan 2000 Series **Recommended use** For Industrial Use Only

**Recommended restrictions** Users should be informed of the potential presence of

respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as

required under applicable regulations.

#### Manufacturer/Supplier information

Company name: FRC Global

Address: 1000 N. West St.

Suite 1200 #3008

Wilmington, DE 19801

Product Support/Technical Services
Phone: (514) 931-5711

Website www.FRCglobal.com

Emergency telephone number: Corporate Office: (514) 931-5711

Technical Services: (514) 931-5711

Contact E-Mail: <u>LadleDr@FRCglobal.com</u>

# 2. Hazard(s) identification

Physical hazardsNot classified.Heath hazardsCarcinogenicity

**Environmental hazards**Not classified.

OSHA defined hazards
Not classified.

Label elements



Signal word Danger.

Hazard Statement May cause cancer.

Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until

all safety precautions have been read and understood.

Category 1A

Wear protective gloves/protective clothing/eye

protection.

**Response** If concerned: Get medical advice/attention.

**Storage** Store locked up.

MATERIAL NAME: FLOSAN 2000 SERIES

**Disposal** Dispose of contents/container in accordance with

local/regional/national/international regulations

Hazard(s) not otherwise Classified (HNOC)

None Known.

Supplemental information Users should be informed of the potential presence of

respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans,

which is a progressive and irreversible lung disease.

Appropriate training in the proper use and handling of this material should be provided as required under applicable

regulations.

3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Quartz (SiO <sub>2</sub> )		14808-60-7	*
Aluminum Oxide (Non-Fibrous)		1344-28-1	*
Iron Oxide		1309-37-1	*
Magnesium Oxide		1309-48-4	*
Calcium Oxide		1305-78-8	*

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or

persist.

**Skin contact** Wash off with soap and water. Get medical attention if

irritation develops and persists.

Eye contact Do not rub your eyes. Flush your eyes immediately with

water for at least 15 minutes. Get medical attention if

irritation develops and persists.

**Ingestion** Unlikely route of exposure. If ingested in sufficient quantity

and the victim is conscious, give 1-2 glasses of water or milk. Never give anything by mouth to an unconscious person. Leave the decision to induce vomiting to qualified medical personnel, since particles may be aspirated into

the lungs. Seek immediate medical attention.

Most important symptoms/effects, acute and delayed

Dust may irritate the respiratory tract, skin, and eyes.

Coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep the victim under observation.

Symptoms may be delayed.

MATERIAL NAME: FLOSAN 2000 SERIES

#### General information

If concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media

Not available.

Specific hazards arising from the chemical

Not available.

Special protective equipment and precautions for firefighters

Wet material should be kept out of eyes and off skin in any

fire, and wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. The material does not give off

toxic fumes in a fire unless it is molten.

# 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Keep unnecessary personnel away. Keep people away from, and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Stop the flow of material if this is without risk. Collect dust using a vacuum cleaner equipped with a HEPA filter. Large Spills: Wet down with water and dike for later disposal. Shovel the material into a waste container. Avoid the generation of dust during clean-up. Following product recovery, flush the area with water.

Small Spills: Sweep up or vacuum up spillage and collect it in a suitable container for disposal. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses, or onto the

ground.

# 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is

MATERIAL NAME: FLOSAN 2000 SERIES

formed. Do not breathe dust. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Store in the original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Aluminum Oxide (Non-Fibrous)	PEL	5 mg/m3	Respirable fraction.
(CAS 1344-28-1)			
Calcium Oxide	PEL	5mg/m3	
(CAS 1305-78-8)			

#### US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Quartz (SiO2)	TWA	0.3 mg/m3	Total dust.
(CAS 14808-60-7)		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.

#### **US ACGIH Threshold Limit Values**

Components	Type	Value	Form
Aluminum Oxide (Non-Fibrous)	TWA	1 mg/m3	Respirable fraction.
(CAS 1344-28-1)			
Quartz (SiO2)	TWA	0.025 mg/m3	Respirable fraction.
(CAS 14808-60-7)			
Calcium Oxide	TWA	2 mg/m3	
(CAS 1305-78-8)			

#### US NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Quartz (SiO2)	TWA	0.05 mg/m3	Respirable dust.
(CAS 14808-60-7)			
Calcium Oxide	TWA	2 mg/m3	
(CAS 1305-78-8)			

Biological limit values No biological exposure limits were noted for the

ingredient(s).

**Exposure guidelines** Occupational exposure to nuisance dust (total and

respirable) and respirable crystalline silica should be

monitored and controlled.

Appropriate engineering controls

MATERIAL NAME: FLOSAN 2000 SERIES

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical respirator with organic vapor cartridge, full

facepiece, dust and mist filter.

Skin protection

Hand protection Wear appropriate chemical-resistant gloves.
Other Use of an impervious apron is recommended.

exposure to dust/fume at levels exceeding the exposure

limits.

Thermal hazards Wear appropriate thermal protective clothing, when

necessary.









#### **General Hygiene Considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

Form Solid Powder.
Color Not available.
Odor Not available.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling range

Not available.

MATERIAL NAME: FLOSAN 2000 SERIES

Flash point Not available.
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

### 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal

conditions of use, storage, and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction is known under conditions of

normal use.

**Conditions to avoid**Contact with incompatible materials.

**Incompatible materials** Powerful oxidizers. Chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to

industrial application exposure. Contact your sales

representative for clarification.

Hazardous decomposition products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Dust may irritate the respiratory system. Prolonged

inhalation may be harmful.

**Skin contact** Dust or powder may irritate the skin.

**Eye contact** Dust may irritate the eyes.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical, and toxicological characteristics:

MATERIAL NAME: FLOSAN 2000 SERIES

Dust may irritate the respiratory tract, skin, and eyes. Coughing.

Information on toxicological effects

Acute toxicity Not available.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with the eyes may cause temporary

irritation.

Respiratory or skin sensitization Respiratory sensitization

Not a respiratory sensitizer.

Germ cell mutagenicity

**Skin sensitization** This product is not expected to cause skin sensitization.

No data is available to indicate product, or any

components present at greater than 0.1% are mutagenic or

genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust, and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in guarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

US National Toxicology Program (NTP) Report on Carcinogens

Quartz (SiO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

MATERIAL NAME: FLOSAN 2000 SERIES

Reproductive toxicity This product is not expected to cause reproductive or

developmental effects.

**Developmental effects** 

Quartz (SiO2) 0

Developmental effects - EU category

Quartz (SiO2) 0

**Embryotoxicity** 

Quartz (SiO2) 0

Reproductively

Quartz (SiO2) 0

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure

may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bio-accumulative potential

No data available. No data available.

Mobility in soil
Other adverse effects

No other adverse environmental effects (e.g. ozone

depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

# 13. Disposal considerations

**Disposal instructions**This product, in its present state, when discarded or

disposed of, is not hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA

criteria for hazardous waste.

Hazardous waste code Since this product is used in several industries, no Waste

Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste

disposal partner or the responsible authority.

Waste from residues / unused products

Not available.

Contaminated packaging Not available.

# 14. Transport information

DOT

MATERIAL NAME: FLOSAN 2000 SERIES

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Chemical

No

#### SARA 313 (TRI reporting)

<u> </u>			
Chemical Name	CAS number	% by wt.	
Aluminum Oxide (Non-Fibrous)	1344-28-1	*	

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not Regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR

68.130) Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

#### US state regulations

US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US Massachusetts RTK - Substance List

MATERIAL NAME: FLOSAN 2000 SERIES

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8)

US New Jersey Worker and Community Right-to-Know Act

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8)

US Pennsylvania Worker and Community Right-to-Know Law

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

Quartz (SiO2) (CAS 14808-60-7) Calcium Oxide (CAS 1305-78-8)

US Rhode Island RTK Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

**US California Proposition 65** 

This product contains a chemical known to the State of

California to cause cancer.

US California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988

## 16. Other information, including date of preparation or last revision

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

Prepared by: FRC Global Date: October 2020

DISCLAIMER: Reasonable care has been taken in the preparation of the information provided and believed to be correct as of the issue date. However, FRC Global makes no representation or warranties and assumes no responsibility as to the completeness and accuracy thereof. Users must make their own determination as to the suitability of the product for their purpose before use. FRC Global will not be responsible for any damages of any nature directly or indirectly whatsoever resulting from the use of, reliance upon, or misuse of the information contained herein.

**End of Safety Data Sheet** 

MATERIAL NAME: FLOSAN 2000 SERIES