



**MATERIAL SAFETY DATA SHEET**  
**ALSAN RS 223 POWDER**

HMIS	PROTECTIVE CLOTHING	TRANSPORT OF DANGEROUS GOODS								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #0056b3; color: white;"> <td style="text-align: center;"><b>3</b></td> <td style="text-align: center;"><b>HEALTH</b></td> </tr> <tr style="background-color: #ff0000; color: white;"> <td style="text-align: center;"><b>0</b></td> <td style="text-align: center;"><b>FLAMMABILITY</b></td> </tr> <tr style="background-color: #ff8c00; color: white;"> <td style="text-align: center;"><b>1</b></td> <td style="text-align: center;"><b>REACTIVITY</b></td> </tr> <tr style="background-color: #cccccc;"> <td style="text-align: center;"><b>G</b></td> <td style="text-align: center;"><b>PROTECTIVE EQUIPMENT</b></td> </tr> </table>	<b>3</b>	<b>HEALTH</b>	<b>0</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>REACTIVITY</b>	<b>G</b>	<b>PROTECTIVE EQUIPMENT</b>		<p><b>NOT REGULATED</b></p>
<b>3</b>	<b>HEALTH</b>									
<b>0</b>	<b>FLAMMABILITY</b>									
<b>1</b>	<b>REACTIVITY</b>									
<b>G</b>	<b>PROTECTIVE EQUIPMENT</b>									

**SECTION II. CHEMICAL PRODUCT AND COMPANY INFORMATION**

<b>Product name:</b>	Alsan RS 223 Powder		
<b>Product number:</b>	L-RS223		
<b>Use:</b>	Cementitious filler component		
<b>Manufacturer:</b>	Soprema S.A. 14, rue de Saint Nazaire - BP 121 F-67025 Strasbourg CEDEX 1 France		
<b>Distributor:</b>	Soprema, Inc. 310 Quadral Drive Wadsworth, Ohio 44281 UNITED STATES		
<b>In case of emergency:</b>	SOPREMA (8:00am to 5:00pm - Eastern time):	(800) 356-3521	
	CHEMTREC (USA) (24h.):	(800) 424-9300	
	CANUTEC (Canada):	(613) 996-6666	
	International:	(703) 527-3887	

**EMERGENCY OVERVIEW!!!**

**HARMFUL IF INHALED - CANCER HAZARD; PROLONGED EXPOSURE MAY CAUSE CHRONIC LUNG INJURY AND SILICOSIS; MAY CAUSE SKIN, EYE, AND RESPIRATORY IRRITATION**

**SECTION II. COMPOSITION AND INFORMATION ON DANGEROUS INGREDIENTS**

Component	CAS#	% by weight	ACGIH TLV	OSHA PEL
Silica, crystalline - Quartz	14808-60-7	> 98	0.05 mg/m <sup>3</sup>	(10 mg/m <sup>3</sup> ) / (% respirable quartz + 2).

TSCA: all ingredients are listed

**SECTION III. POTENTIAL HEALTH EFFECTS**

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:** This product can cause skin, eye and respiratory irritation. Prolonged inhalation of the main component, quartz, causes silicosis and cancer.

This product contains:

**Crystalline silica as Quartz**, which may cause mechanical irritation of the eyes. High concentrations of dust may cause coughing and mild, temporary irritation. There is no specific human information available about the short-term inhalation effects of quartz.

However, quartz can have potentially serious respiratory effects following long-term inhalation (one year or more). Quartz dust can accumulate in the lungs. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis. The early symptoms of silicosis, cough, mucous production and shortness of breath upon exertion are non-specific, so the development of silicosis may not be detected until advanced stages of the disease. Silicosis may continue to develop even after exposure to crystalline silica has stopped. Evidence of silicosis can normally be seen on an X-ray.

The risk of developing silicosis depends on the airborne concentration of respirable-size crystalline silica dust to which an employee is exposed, and duration of exposure. Particles with diameters less than 1 micron and freshly cleaved particles are considered most hazardous. Silicosis usually develops gradually over 20 years or more of exposure. Several reliable studies have found silicosis in employees with exposure to considerably less than 1 mg/m<sup>3</sup> respirable quartz.

**CARCINOGENICITY:**

NTP.....: Yes

IARC.....: Yes

OSHA.....: No

The International Agency for Research on Cancer (IARC) has concluded that crystalline silica inhaled in the form of quartz from occupational sources should be classified as carcinogenic to humans (Group 1 upgraded from its previous classification as probably carcinogenic to humans (Group 2A).

**SECTION IV. FIRST AID MEASURES**

<b>SKIN</b>	Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water. Do not use solvents or thinners. Get medical attention if irritation occurs. Wash clothing before re-use.
<b>EYES</b>	Hold eyes open and flush for at least 15 minutes with large amounts of water. Seek medical attention.
<b>INHALATION</b>	Remove to fresh air immediately. If breathing has stopped give artificial respiration. If breathing is difficult administer oxygen. Consult physician if irritation of respiratory passage occurs.
<b>INGESTION</b>	Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Consult physician immediately.

**SECTION V. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	n/a
<b>Extinguishing media</b>	Product is non-combustible. When selecting fire fighting measures consider hazards of other products in fire area.
<b>Special fire fighting procedures</b>	Use self-contained breathing apparatus and full protective clothing.

**SECTION VI. ACCIDENTAL RELEASE MEASURES****RELEASE OR SPILL:**

Wearing appropriate respiratory protection, wet spills with water spray and scoop up into suitable containers. Use vacuum for minor spills. Avoid generating dust.

**SECTION VII. HANDLING AND STORAGE****HANDLING:**

Quartz is a very toxic solid (cancer hazard and long-term inhalation hazard). Before handling, it is very important that engineering controls are operating and that protective equipment requirements and personal hygiene measures are being followed. Consider using closed handling systems or wet processes for operations involving this material. Avoid generating dust. Prevent the release of dust into the workplace air. Use in the smallest possible amounts in a well ventilated area, separate from the storage area. People working with this chemical should be properly trained regarding its hazards and its safe use. Immediately report leaks, spills or ventilation failures.

**STORAGE:**

Store closed containers away from strong oxidizing agents, strong acids and alkalis. Keep in well ventilated areas.

**SECTION VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>HANDS</b>	Clothing suitable to prevent skin contact. Use of gloves recommended. Check suitability recommendations by protective equipment manufacturers.
<b>RESPIRATORY</b>	If airborne concentration poses a health hazard, becomes irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. NIOSH recommends the use of high-efficiency particulate filters at silica concentrations of up to 0.5 mg/m <sup>3</sup> in air. Higher concentrations require full face piece or positive pressure respiratory protection.
<b>EYES</b>	Safety goggles with side shields.
<b>ENGINEERING CONTROLS</b>	Use local exhaust ventilation or respiratory protection to maintain employee exposure below TLV.

**SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL FORM</b>	Solid, powder
<b>COLOR</b>	Grey
<b>ODOR</b>	None
<b>SPECIFIC GRAVITY</b>	Approx. 23 g/cm <sup>3</sup>
<b>pH</b>	8.5
<b>BOILING POINT</b>	n/a
<b>VAPOR PRESSURE</b>	n/a
<b>SOLUBILITY IN WATER</b>	Insoluble

**SECTION X. STABILITY AND REACTIVITY****STABILITY:**

Stable

**CONDITIONS OF REACTIVITY:**

No information provided

**INCOMPATIBILITY:**

Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:**

n/a

**HAZARDOUS POLYMERIZATION:**

Does not occur.

## SECTION XI. TOXICOLOGICAL INFORMATION

### Route of Entry

skin contact       skin accumulation       eyes       ingestion       inhalation

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## SECTION XII. ECOLOGICAL INFORMATION

### Environmental effects:

Avoid contamination of ground water or waterways.

## SECTION XIII. DISPOSAL CONSIDERATIONS

### Waste disposal:

Dispose of in accordance with Federal, State or Local regulations.

## SECTION XIV. TRANSPORTATION INFORMATION

Not regulated

## SECTION XV. REGULATORY INFORMATION

All components of this product are on the TSCA Inventory.

## SECTION XVI. OTHER INFORMATION

### Glossary:

ACGIH: American Conference of Governmental Industrial Hygienists  
ANSI: American National Standards Institute  
ASTM: American Society for Testing and Materials  
CAS: Chemical Abstract Services  
CFR: Code of Federal Regulations (United States)  
CSA: Canadian Standardisation Association  
DOT: Department of Transportation (United States)  
DSL: Domestic Substances List (Canada)  
EPA: Environmental Protection Agency (United States)  
HMIS: Hazardous Material Information System  
IARC: International Agency for Research on Cancer  
LC50: (Lethal concentration<sub>50</sub>) Concentration of a substance in air that causes death of 50% mortality of a defined animal population  
LD50: (Lethal dose<sub>50</sub>) Single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause the death of 50% of a defined animal population.  
NFPA: National Fire Protection Association (United States)  
NIOSH: National Institute for Occupational Safety and Health  
NTP: National Toxicology Program  
OSHA: Occupational Safety & Health Administration (United States)  
PEL: Permissible Exposure Limit  
RCRA: Resource Conservation and Recovery Act (United States)  
RTECS: Registry of Toxic Effects of Chemical Substances  
TDG: Transportation of Dangerous Goods  
TLV: Threshold Limit Value  
TWA: Time-weighted average  
TSCA: Toxic Substances Control Act (United States)  
WHMIS: Workplace Hazardous Materials Information System (Canada)

### Reference:

Supplier MSDS

This MSDS has been prepared by: SOPREMA, INC.  
For information: 800-543-3085

The Material Safety Data Sheets of SOPREMA are available on Internet at the following site: [HTTP://WWW.SOPREMA.US](http://WWW.SOPREMA.US)

### Justification of the update:

New MSDS.

This MSDS contains all the information required by ANSI Z-400.1-1998 standard (United States), by regulation 29 CFR Part 1910.1200 of the Hazard Communication Standard of OSHA, and is in accordance with standard DORS/88-66 OF WHMIS Canada.

**To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.**