

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name: roVa™ Guard

Synonyms: Opacified silica aerogel blanket

Use of the Substance/Preparation: Material, Industrial Products, High performance insulation material

Manufacturer: roVa Corporation
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2. HAZARDS IDENTIFICATION**ROUTE OF EXPOSURE-INHEALATION****Acute Effects of Exposure:**

Excessive, short-term exposure to airborne dusts may cause irritation of the upper respiratory tract.

Chronic Effects of Exposure:

Silica: This product is composed of amorphous silicon dioxide, often referred to as silica gel or amorphous precipitated silica. Amorphous silica should not be confused with crystalline silica. Epidemiological studies indicate low potential for adverse health effects. Silica gel is considered by NIOSH/OSHA to be a nuisance dust. There is inadequate evidence in humans for the carcinogenicity of amorphous silica. There is inadequate evidence in experimental animals for the carcinogenicity of amorphous silica. Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3). (Amorphous Silica Gel).

Route Of Exposure-Skin/Eye:**Acute effects of exposure:**

Dessicant action of activated silica gels can produce drying and irritation of the skin and mucous membranes.

Chronic Effects of Exposure:

None known for product

Route Of Exposure-Ingest:**Acute effects of exposure:**

May produce mechanical irritation and blockage

Chronic Effects of Exposure:

None known for product



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Carcinogenicity:

See discussion above

Sings/Symptoms Of Overexposure:

Tearing of eyes, irritation of throat, cough

Medical Condition Aggravated By Exposure:

Excessive inhalation of dust may aggravate pre-existing chronic lung conditions including, but not limited to, bronchitis, emphysema, asthma

Emergency/First Aid Procedure:

Eye: Immediately wash with large amounts of water for at least 15 minutes, occasionally lifting lids. If irritation occurs and persists, get medical treatment.

Skin: Wash with soap and water immediately.

Ingest: Material will pass through the body normally.

Inhale: Remove to fresh air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent	EINECS Number
Trimethylsilylated Silica (amorphous silica)	7631-86-9	40~50	262-373-8
Polyester Fiber	80595-68-2	40~50	Not assigned
Proprietary Additive	NA	<=5	Not assigned

4. FIRST AID MEASURES

Flash Point: Not applicable

Extinguishing Media:

Use media suitable for surrounding fire and that are appropriate to the surrounding environment; normal fog nozzle water application and/or exclusion of air is suitable for extinguishing this product in blanket form.

Special Fire Fighting Prec:

Wear NIOSH/MSHA approved SCBA and full protective equipment.

Unusual Fire And Explosion Hazards:

Rapid exposure of the product to excessive heat or flame can generate local concentrations of combustible vapors.

Product is a super-insulation material. Rolls of material can retain heat within internal layers causing re-ignition in the presence of oxygen if heat is not removed.

Dust Explosion Potential:

Surface treated silica gel materials are not a readily combustible or explosive substance. If dust clouds of particulates are generated from aggressive handling of the product, caution should be taken to avoid static discharges; ground all metal parts of cutting/processing equipment.



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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

For non-

Wear personal protective equipment during cleanup and provide adequate ventilation.

Environmental Precautions:

Local authorities should be advised if significant spillages cannot be contained.

Methods and Materials for Containment and Cleaning Up:

Contain spills using inert absorbent material such as sand, earth, and saw dust. Use rags to clean up spilled material. Dispose in suitable waste containers in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

Steps If Material Is Released/Spill:

Not known to have any adverse affects on the aquatic environment. Material is insoluble and nontoxic. Sweep or vacuum up.

Wasted Disposal Method:

Dispose in an approved landfill IAW federal, state, and local regulation. Cover promptly to avoid blowing of dust.

Precautions-Handling/Strong:

Avoid conditions that generate large quantities of dust. Ground metal containers and tools used to handle the product.



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Other Precautions Handling/Storing:

Avoid breathing of dust, contact of dust with skin. Drying action can cause irritation of mucous membranes of nose and throat and irritation of skin. If use requires material handling, wear long sleeves and nitrile gloves. Hands should be washed thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

None applicable

Engineering Controls

Ensure adequate ventilation to maintain exposures below occupational limits.

Personal Protective Equipment

Respiratory Protection:

If conditions are present involving dust evolution, wear properly fitted NIOSH/MSHA approved respirator with P100 cartridge or cannister. A respiratory protection program that meets OSHA 29 CFR Part 1910.134 and ANSI Z88.2 requirements whenever workplace conditions warrant use of a respirator.

Ventilation: Local exhaust to control dust

Protective Gloves: Nitrile, latex or other impermeable gloves to control dermal exposure

Eye Protection: Chemical goggles

Other Protective Equipment: Long sleeves

Work Hygienic Practices:

Keep materials packaged until just prior to use. Die cut in preference to rotary or other cutting methods. Dry vacuum with proper filtration preferred to sweeping. Wash thoroughly after using the product. Wash clothing if dust conditions present. Wash hands before eating or drinking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	solid; blanket
Color:	White
pH:	No data available
Freezing/Melting Point:	No data available
Boiling Point:	No data available
Flashing Point:	Not applicable
Evaporation Rate:	Not Determined
Flammability:	Not Determined
Vapor Pressure:	Not applicable
Relative vapor density	Not applicable
Solubility	No data available

10. STABILITY AND REACTIVITY**Reactivity:**

No data available

Chemical Stability:

Chemically stable under normal handling conditions.

Hazardous Reactions:

None, when used as directed.

Conditions To Avoid:

Prolonged exposure to temperatures above the recommended use temperature.

Incompatible materials:

No data available

Hazardous Decomposition Products:

No data available

11. Toxicological Information**Acute Oral Toxicity:**

No data available

Acute Dermal Toxicity:

No data available

Acute Inhalational Toxicity:

No data available

Skin Corrosion/ Irritation:

No data available

Serious eye damage/ Irritation:

No data available

Other information:

The information was derived from products of similar composition.

12. ECOLOGICAL INFORMATION**Fish**

Acute:

No data available

Aquatic invertebrates

Acute:

No data available



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Aquatic plants

Toxicity to aquatic plants:

No data available

Microorganisms

Toxicity to microorganisms:

No data available

Degradability / Persistence**Biological / Abiological Degradation**

No data available

Bioaccumulation

No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose in an approved facility or through a licensed waste disposal contractor. Disposal of this product and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation. Do not discharge into waterways, drains, and sewers.

Packing

Residues must be removed from packaging and, once completely emptied, the packaging must be disposed of in accordance with waste removal regulations. Packaging that is not completely emptied must be disposed of in the manner specified by the regional waste disposer.

14. Transportation Data

UN Number:

Not classified as a dangerous good under transport regulations.

UN Proper Shipping Name:

Not classified as a dangerous good under transport regulations.

Transport Hazard Class:

Not classified as a dangerous good under transport regulations.

Packaging Group:

Not classified as a dangerous good under transport regulations.

Land Transport:

USDOT

Not classified as a dangerous good under transport regulations.

Sea Transport:

IMDG

Not classified as a dangerous good under transport regulations.

Air Transport:

IATA/ICAO

Not classified as a dangerous good under transport regulations.



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Rail Transport:

RID Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

U.S. Federal Regulations

Registration Status	TSCA, US released/listed
OSHA Hazard Category	Not Hazardous
SARA Hazard Category (EPCRA 311/312)	Not Hazardous

U.S. State Regulations

Right-to-Know Substances List NJ, PA, MA

California Proposition 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. OTHER INFORMATION

MSDS Creation Date: 09/11/2019

Revision number and date

Number of Revision : 1
Revision Date : 08/13/2025

Date format : mm/dd/yyyy

Disclaimer

The Data set forth in these sheets are based on the information provided by the suppliers of the raw materials and chemicals used in the manufacturing of the aforementioned product. roVa corporation makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereon.

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