Material Safety Data Sheet

AEROSIL 200 RX (RXSOL-81-8119-010)

1. Product and Company Identifaction

Product Name	AEROSIL 200 RX
Part No	RXSOL-81-8119-010

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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2. Composition / informationon ingredients

Camical Name	CAS No.	EC number	weight %
Aerosil 200	Aerosil 200	234-394-2	100

Other information	A new CAS , 112945-52-5, has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS 7631-86-9

3. Hazards Identification

Signal word	None
Label elements	Statutory basis/Remarks - Classification according to Regulation 29CFR 1910.1200 Not a hazardous substance or mixture.
Other hazards	Silicon dioxide, chemically preparedNot a PBT, vPvB substance as per the criteria of the REACH Regulation.

4. First Aid Measures

Inhalation :	In case product dust is released: Possible discomfort: cough, sneezing Move victims into fresh air.
Skin contact	Wash off with soap and plenty of water. contaminated clothing. Immediately call a POISON CENTER or doctor
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention
Most important symptoms and effects, both acute and delayed	None known.
Indication of any immediate medical attention and special treatment needed	No hazards which require special first aid measures.

5. Fire-fighting Measures

Extinguishing media	Suitable extinguishing media : Water spray, foam, CO2, dry powder., Adapt fire-extinguishing measures to Unsuitable extinguishing media : Do not use full-force water jet in order to avoid dispersal and spread of the fire. Surrounding fires : Use water spray or fog for cooling exposed containers.
Special hazards arising from the substance or mixture	None known.
Advice for fire-fighters	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear..

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment.
For emergency responders	Equip cleanup crew with proper protection Ventilate area.
For non-emergency personnel	Evacuate unnecessary personnel.
Environmental precautions	Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.
Methods and material for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal.
Reference to other sections	See section 8. Exposure controls/personal protection

7. Handling and Storage

Precautions for safe handling	Equip cleanup crew with proper protection Ventilate area.
Storage	Keep containers tightly closed in a dry, cool place
Handling	Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, spray. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area.
Technical protective measures	Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical, ventilating, lighting, …,equipment. Special precautions : No naked lights. No smoking.
Advice on protection against fire and explosion	Take precautionary measures against static discharges.
Advice on protection against fire and explosion	Take precautionary measures against static discharges.

8. Exposure controls and personal protection

Control parameters	Time Weighted Average
20millions of particles per cubic foot of air	(TWA):(Z3)
0.8 mg/m3	(TWA):(Z3)

The exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits

Respiratory protection	A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Hand protection	Use impermeable gloves
Eye protection	Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles
Skin and body protection	A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.
Hygiene measures	When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before re-use.

Protective measures	Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection

9. Physical and chemical properties

Physical state at 20 °C	Solid
Colour	White
Odour	Odorless
Form	Powder
Odour	Odorless
Odour threshold	Not applicable
pH value	3.7 - 4.5 (40 g / l) (20 °C).
Melting point [°C	Ca. 1700 °C
Critical temperature	N/A
Boiling point/range	Not determined
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Density	ca. 2.2 g/cm3 (20 °C)
Water solubility	> 1 mg/l
Partition coefficient: noctanol/wate	Not applicable
Autoignition temperature	Not applicable
Thermal decomposition	> 2000 °C
Viscosity, dynamic	Not applicable
Other information	Explosiveness Not to be expected in view of the structure Minimum ignition energy not applicable Tapped density ca. 50 g / l Method: DIN / ISO 787/11

10. Stability and reactivity

Reactivity	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions.
Incompatible materials	None known.
Hazardous decomposition products	None known. Stable under normal conditions. Product will not undergo hazardous polymerization.

11. Toxicological information

Acute oral toxicity	LD50 Rat: > 3300 mg/kg No deaths occurred. LD50 Rat: > 5000 mg/kg
Acute inhalation toxicity	LC0 Rat: 0.139 mg/l / 4 h Method: analogous OECD method (maximum concentration attainable in experiments) No deaths occurred.
Acute dermal toxicity	LD50 Rabbit: > 5000 mg/kg comparable product
Skin irritation	Rabbit not irritating Method: analogous OECD method
Eye irritation	Rabbit not irritating Method: analogous OECD method
Sensitization	Not known
Repeated dose toxicity	Oral No negative effects.Inhalation No irreversible changes and no indication of silicosis.
Assessment of STOT single exposure	No evidence for hazardous properties

Assessment of STOT repeat exposure	No evidence for hazardous properties
Carcinogenicity	No negative effects
Carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA
Toxicity to reproduction	No negative effects.
Human experience	Silicosis or other product specific illnesses of the respiratory tract have not been reported.

12. Ecological information

Toxicity information	Not established
Persistence - degradability	Biodegradable.
Bioaccumulative potential	Bioaccumulation Not to be expected.
Mobility in soil	No remarkable mobility in soil is to be expected.
Other adverse effects	The classification criteria are not met based on the available data.

13. Disposal considerations

Waste treatment methods	Waste must be disposed of in accordance with federal, state, provincial and local regulations.
Uncleaned packaging	Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.
Special precautions	Handle empty containers with care because residual vapours are flammable.

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14. Transport information

UN number	--
UN proper shipping name	--
Transport hazard class(es)	--
Packing group	--
Environmental hazards (Marine pollutant)	--
Special precautions for user	Yes

15. Regulatory information

OSHA	If listed below, chemical specific standards apply to the product or components:None listed
CERCLA Reportable Quantities	If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:
SARA Title III Section 311/312 Hazard Categories	The product meets the criteria only for the listed hazard classes:
SARA Title III Section 313 Reportable Substances	If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Substance or mixture	Safety, health and environmental : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.
State Regulations	The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.
California Proposition 65	A warning under the California Drinking Water Act is required only if listed below:

HMIS Ratings	Health : 1 Flammability : 0 Physical Hazard : 0
NFPA Ratings	Health : 1 Flammability : 0 Reactivity : 0
Chemical Safety Assessment	Chemical Safety Assessment : It has not been carried out.

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages. DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.