

**SIMETHICONE EMULSION (SIMUL – 73)**

**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

RioCare India Pvt. Ltd.  
Plot No. R – 39, TTC Indl. Area,  
MIDC Rabale, Navi Mumbai – 400 701,  
Maharashtra, India.

24 Hour Emergency Telephone:  
Factory : 0091 22 2760 0163 / 2769 3331  
Fax No. 0091 22 2760 3751  
MSDS No.: 202  
Revision Date: 2008/04/01  
Generic Description: Silicone emulsion  
Physical Form: Liquid  
Color: White  
Odor: Characteristic odor  
NFPA Profile:  
Health 0 Flammability 1 Instability/Reactivity 0  
Note: NFPA = National Fire Protection Association

**2. OSHA HAZARDOUS COMPONENTS**

None present. This is not a hazardous material  
as defined in the OSHA Hazard Communication Standard.

**3. EFFECTS OF OVEREXPOSURE**

Acute Effects

Eye : Direct contact may cause mild irritation.  
Skin : No significant irritation expected from a single short-term exposure.  
Inhalation : No significant effects expected from a single short-term exposure.  
Oral : Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin : Repeated or prolonged exposure may cause irritation.  
Inhalation : Overexposure by inhalation may injure the following organ(s):Reproductive System.  
Oral : No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.  
Medical Conditions Aggravated by Exposure  
No known applicable information.

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The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

**4. FIRST AID MEASURES**

Eye : Immediately flush with water for 15 minutes.

Skin : No first aid should be needed.

Inhalation : No first aid should be needed.

Oral : No first aid should be needed.

Comments : Treat according to person's condition and specifics of exposure.

**5. FIRE FIGHTING MEASURES**

Flash Point : 212 °F / 100 °C (Closed Cup)

Auto-ignition Temperature : Not determined.

Flammability Limits in Air : Not determined.

Extinguishing Media : On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures : Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

Unusual Fire Hazards : None.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products : Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

**6. ACCIDENTAL RELEASE MEASURES**

Containment / Clean up :

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.

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You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills.

**7. HANDLING AND STORAGE**

Use with adequate ventilation. Avoid eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Use reasonable care and store away from oxidizing materials.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Component Exposure Limits

CAS Number Component Name Exposure Limits

68909-20-6 Fumed silica : 5 mg/m<sup>3</sup> Ceiling (as dust).

Engineering Controls

Local Ventilation: Recommended.

General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes : Use proper protection - safety glasses as a minimum.

Skin : Washing at mealtime and end of shift is adequate.

Suitable Gloves : No special protection needed.

Inhalation : Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes : Use full face respirator.

Skin : Washing at mealtime and end of shift is adequate.

Inhalation / Suitable Respirator : Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

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Precautionary Measures: Avoid eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com))

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form: Liquid

Color: White

Odor: Characteristic odor

Specific Gravity @ 25°C: 1

Viscosity: 500 – 1200 cSt

Freezing/Melting Point: Not determined.

Boiling Point: > 90 °C

Vapor Pressure @ 25°C: Not determined.

Vapor Density: Not determined.

Solubility in Water: Soluble

pH: Not determined.

Volatile Content:

Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact RioCare (I) Pvt. Ltd. before writing specifications.

**10. STABILITY AND REACTIVITY**

Chemical Stability:

Stable.

Hazardous Polymerization : Hazardous polymerization will not occur.

Conditions to Avoid : None.

Materials to Avoid : Oxidizing material can cause a reaction.

**11. TOXICOLOGICAL INFORMATION**

**Special Hazard Information on Components**

No known applicable information.

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution**

Complete information is not yet available.

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**Environmental Effects**

Complete information is not yet available.

**Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

**Ecotoxicity Classification Criteria**

Hazard Parameters (LC50 or EC50) High Medium Low

Acute Aquatic Toxicity (mg/L)  $\leq 1$   $> 1$  and  $\leq 100$   $> 100$

Acute Terrestrial Toxicity  $\leq 100$   $> 100$  and  $\leq 2000$   $> 2000$

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993. This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

**13. DISPOSAL CONSIDERATIONS**

**RCRA Hazard Class (40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

**14. TRANSPORT INFORMATION**

**DOT Road Shipment Information (49 CFR 172.101) Not subject to DOT.**

**Ocean Shipment (IMDG) :**

Not subject to IMDG code.

**Air Shipment (IATA) :**

Not subject to IATA regulations.

**15. REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: One or more of the components in this product may not be listed on the Toxic Substances Control Act inventory of chemical substances. Therefore, this product may only be used for purposes not subject to TSCA.

**EPA SARA Title III Chemical Listings**

**Section 302 Extremely Hazardous Substances : None.**

**Section 304 CERCLA Hazardous Substances : None.**

**Section 312 Hazard Class:**

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Acute : No  
Chronic : Yes  
Fire : No  
Pressure : No  
Reactive : No

**Section 313 Toxic Chemicals :**

None present or none present in regulated quantities.

**Supplemental State Compliance Information**

**California**

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

**Massachusetts**

No ingredient regulated by MA Right-to-Know Law present.

**New Jersey**

CAS Number Wt % Component Name

7732-18-5 40.0 - 70.0 Water

63148-62-9 15.0 - 33.0 Polydimethylsiloxane

Emulsifiers, Preservatives.

**Pennsylvania**

CAS Number Wt % Component Name

7732-18-5 40.0 - 70.0 Water

63148-62-9 15.0 - 33.0 Polydimethylsiloxane

Emulsifiers, Preservatives.

**16. OTHER INFORMATION**

Prepared by : RioCare India Pvt. Ltd.

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.