

MATERIAL SAFETY DATA SHEET

Conforms to EU Directive 91/155

1 IDENTIFICATION OF SUBSTANCE



PRODUCT DETAILS

TRADE NAME: EnroSIL 10DF

PRODUCT CODE: EnroSIL 10DF

APPLICATION OF THE SUBSTANCE/ PREPARATION: Silicone/ Silicate Defoamer Emulsion.

Manufacturer/Supplier:

EnroChem Trading DMCC
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DMCC, Dubai

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2 COMPOSITION/INFORMATION ON COMPONENTS



CHEMICAL CHARACTERISATION

Description: Polydimethylsiloxane (Silicone) & Silica in water emulsion.

Active Composition:

Polydimethylsiloxane (silicone) - 10%

Silica - 1-3%

Dangerous Components: None

3 HAZARDS IDENTIFICATION



Hazard Designation: N/A

Information Pertaining to Particular Dangers for Man and the Environment: N/A

4 FIRST AID MEASURES



General Information: No special measures required.

Oral Exposure: In case of persistent symptoms call a physician.

Inhalation Exposure: Supply fresh air. Call a physician in case of symptoms.

Dermal Exposure: In case of contact, immediately wash skin with soap and water and rinse thoroughly.

Eye Exposure: Rinse opened eye with water for several minutes.

5 FIRE FIGHTING MEASURES



NOT FLAMMABLE

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6 ACCIDENTAL RELEASE MEASURES



Personal Safety Precautions: Wear protective clothing.

Measures for Environmental Protection: Should not be discharged into water courses without prior treatment (Demulsify, collect solids and incinerate or by biological purification plant).

Methods for Cleaning/ Collecting: Absorb with liquid-binding material (sand, sawdust, cotton waste, etc). Smaller amounts of contaminated binding material can be disposed of with municipal waste.

7 HANDLING AND STORAGE



HANDLING

Information for Safe Handling: No special measures required.

Information about Protection against Explosion and Fire: No special measures required.

STORAGE

Requirements to be met by Storerooms and Containers: No special requirements.

Information about Storage in a Common Storage Facility: None

Further Information about Storage Conditions: Protect from frost. Protect from heat and direct sunlight.

STORAGE CLASS

Classification According to Regulation on Inflammable Liquids (VbF): None

8 EXPOSURE CONTROLS & PERSONAL PROTECTION



Additional Information about Design of Technical Systems: No further data; see item 7.

Components with Critical Values that Require Monitoring at the Workplace: This product does not contain any relevant quantities of materials with critical values which require monitoring at the workplace.

63148-62-9 Polydimethylsiloxane (Silicone) Fluids

No known applicable information.

Additional Information: Information valid at the time of review of MSDS.

PERSONAL PROTECTIVE EQUIPMENT

General Protective and Hygiene Measures: The usual precautionary measures should be adhered to in handling the chemicals.

Respiratory: Not required.

Hand: Protective gloves.

Eye: Safety goggles recommended during refilling.

Body: Protective work clothing.



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9 PHYSICAL & CHEMICAL PROPERTIES



Physical State: Liquid, Silicone fluid in water emulsion.

Appearance: White, opaque.

Melting Point: N/A

Boiling Point: ca. 100°C

Flash Point: N/A - Not flammable.

Explosive Properties: None.

Vapor Pressure: Not determined.

Relative Density: 0.99 - 1.01 g/cm³

Solubility: Dispersable in Water.

pH Value at 20°C: 7.0 - 9.0

Organic Solvent Content: None.

Solids Content: 11 - 14%

10 STABILITY & REACTIVITY



Stability: Stable.

Conditions to Avoid: Excessive heat (+40°C) and freezing. Repeated freezing and thawing.

Minimum Shelf Life: 3 months from date of manufacture.

Dangerous Reactions: None known.

Dangerous Products of Decomposition: None if used as recommended.

11 TOXICOLOGICAL INFORMATION



ACUTE TOXICITY

LD/LC50 Values that are Relevant for Classification: Polydimethylsiloxane, no known applicable information.

ROUTE OF EXPOSURE

Skin Contact: No immediate irritant effect.

Eye Contact: Causes eye irritation.

Sensitisation: Not a skin sensitiser.

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12 ECOLOGICAL INFORMATION



INFORMATION ABOUT ELIMINATION (PERSISTENCE AND DEGRADABILITY)

Analysing Method: See note below.

Degree of Elimination: > 80 %

Other Information: The product is eliminated in waste water treatment plants by physical and biological means.

Ecotoxicological Effects: Polydimethylsiloxane degrades in soil abiotically to form smaller molecules. These in turn are either biodegraded in soil or volatilized into the air where they are broken down in the presence of sunlight. Under appropriate conditions, the ultimate degradation products are inorganic silica, carbon dioxide and water vapour. Due to the very low water solubility of this product, standard OECD protocols for ready and inherent biodegradability are not suitable for measuring the biodegradability of this product. The product is removed >80% during the sewage treatment process.

ADDITIONAL ECOLOGICAL INFORMATION

AOX Indication: The product does not contain substances which can influence the AOX value of waste water.

Heavy Metals and Compounds (according to EC guidelines NO. 76/464 EC): None

13 DISPOSAL CONSIDERATIONS



Always consult local legislative bylaws. If in doubt hand over to a specifically authorised hazardous waste treatment plant.

CONTAMINATED PACKAGING

Recommendation: Packaging can be reused or recycled after cleaning.

Recommended Cleaning Agent: Water, if necessary, with cleaning agent.

14 TRANSPORT INFORMATION



UN number or ID number: Not subject to transport regulations

UN proper shipping name: Not assigned

Transport hazard class(es): None

Packing Group: Not assigned

Environmental Hazards: Non-environmentally hazardous acc. to the dangerous goods regulations

Special precautions for user: There is no additional information.

Maritime transport in bulk according to IMO instruments: The cargo is not intended to be carried in bulk.

INFORMATION FOR EACH OF THE UN MODEL REGULATIONS

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information: Not subject to ADR, RID, and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information: Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information: Not subject to ICAO-IATA.



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15 REGULATORY INFORMATION



Designation According to EC Guidelines: The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (CHIP). Observe the normal safety regulations when handling chemicals.

NATIONAL REGULATIONS

Classification According to VbF: None

Water Hazard Class 2(Self-assessment): Hazardous for water.

16 OTHER INFORMATION



NOTICE TO READER

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor 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.

Data Specification sheet issued by: EnroChem Trading DMCC

Contact: Max Roux

