MATERIAL SAFETY DATA SHEET
MSDS

SILICONE FLUID

REVISION DATE: 03/20/2022

1. - PRODUCT AND COMPANY IDENTIFICATION

Product name: Silicone Fluid.
Internal Code of product identification:
Company name: USIQUÍMICA DO BRASIL LTDA.
Address: Rua da Lagoa, 431 - Cumbica - Guarulhos - SP.
Company Phone: + 5511 3821-7000 (PBX system) - + 5511 2481-3355.
Emergency phone: AMBIPAR - Environmental Emergency.
DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
193 – Firefighters.

Main recommended uses for the substance: Industrial use.

2. - HAZARD IDENTIFICATION

Classification of Substance:
Product not classified by the GHS system.

GHS label elements, including precautionary phrases:

LABEL ELEMENTS	DATA
Product identification and supplier emergency telephone number.	Commercial Name: SILICONE FLUID Emergency phone: SUATRANS - COTEC - Environmental Emergency. DDG (0800) 0111-767 - (0800) 7071-767 - 24 HOURS.
Hazard pictograms.	Product not classified by the GHS system.
Warning words.	Product not classified by the GHS system.
Danger phrases.	Product not classified by the GHS system.
Precautionary phrases.	Product not classified by the GHS system.

Other hazards which do not result in classification:
No information found.

3. - COMPOSITION AND INFORMATION ABOUT INGREDIENTS

Substance:
Common chemical name or generic name: Dimethyl Siloxane
CAS number: 63148-62-9
Synonym: Polydimethylsiloxane
Comments: This product contains the substance Dimethyl Siloxane (CAS n- 63148-62-9) 100% by

4. - FIRST AID MEASURES

First aid measures:
Inhalation: Remove casualty to uncontaminated, ventilated area. If breathing is difficult, give oxygen. Apply resuscitation maneuvers in case of cardiorespiratory arrest. Immediately forward to the nearest hospital.
Skin contact: Remove clothing contaminated by the product. Wash contact areas with plenty of soap and water. If irritation persists, seek medical attention.
Eye contact: Immediately wash eyes with running water for 15 minutes, lifting eyelids to allow maximum removal of product. seek medical attention.
Ingestion: Never give anything by mouth to an unconscious person. If a large amount of this substance is ingested, refer immediately to a doctor.
What actions must be avoided: Do not induce to vomiting. If vomiting occurs spontaneously, the victim must be laid on their side to prevent pulmonary aspiration. Never administer liquids to unconscious victims.
Brief description of the main symptoms and effects: No known or expected symptoms.
Notes to the physician: It is a product with reduced effect on human beings. Some irritations that may occur should be treated with simple washings, and abdominal discomforts can be treated in the usual way. Do not give anything by mouth to an unconscious person. In case of contact with the skin and/or eyes, do not rub the affected parts.

If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic, metabolic disorders, as well as respiratory assistance.

5. - FIREFIGHTING MEASURES

Suitable extinguishing measures: Use water spray, dry chemical powder, mechanical foam or carbon dioxide, according to materials close to the fire.
Inappropriate extinguishing measures: Waterjet.
Specific hazards: Combustion of the product may produce toxic vapors and gases.
Additional indications: Water must not be directed directly onto the burning product, as it may spread and/or contaminate other areas.
Fire fighter Protection: Special protective equipment for personnel assigned to fight fires. Do not stay in the danger zone without self-contained breathing apparatus suitable for breathing independently of the environment. To avoid skin contact, maintain a safe distance and wear suitable protective clothing. Refresh closed containers exposed to fire with water spray. Suppress (shoot down) with water jets (fog) gases, vapors and mists. Avoiding contamination of surface water and groundwater with firefighting water.

6. - MEASURES OF CONTROL FOR ACCIDENTAL SPILLS OR LEAKAGE

Personal precautions, protective equipment and emergency procedures:
Personnel who are not part of the emergency services: Do not breathe vapors or aerosols. Avoiding contact with the substance. Ensuring adequate ventilation. Evacuating the danger area, observe emergency procedures. If necessary, consult an expert.
For the staff of the emergency department: Use complete PPE, with protective PVC gloves, safety glasses with side protection and suitable protective clothing. The material used must be waterproof. In case of large leaks, where exposure is great, it is recommended to use a protective mask with a filter against vapors or mists.
Removal of ignition sources: Keep away from sources of heat and ignition.
Prevention of inhalation and contact with skin, mucous membranes and eyes: See Section 8, Field:
" Appropriate Personal Protective Equipment".
Precautions to the environment: Prevent spilled product from entering water courses. Collect the spilled product, place the material in appropriate containers for proper final destination.
Methods and materials for containment and cleaning: Absorb the liquid with inert material (Vermiculite, sawdust).
Disposal: Waste must be disposed of in accordance with current Environmental Legislation. Keep chemicals in their original containers. Do not mix with other waste. Handling dirty containers must be carried out in the same way as the product itself. An WSDS of the waste must be generated.
Differences in the action of large and small leaks: Absorb liquid with inert material. The product must be collected in suitable containers, properly identified, for later disposal. Washing the area with plenty of water, which must also be collected for disposal. Collecting contaminated soil. Risk of contamination of soils and rivers in the event of a large volume spill.

7. - HANDLING AND STORAGE

Handling:
Technical measures: Using only in areas provided with adequate exhaust ventilation. Providing the product handling area with a set of emergency shower and eye wash. Handling must only be done with the indicated PPE and under safe conditions.
Prevention of worker's exposure: Avoiding the formation of vapors/aerosols. Working with exhaust / chimney. Do not inhale the substance/mixture. Using specific PPE's - splash goggles, face shield, PVC gloves and protective clothing. Wash after handling and decontaminate PPE's after use. PPE's must be approved for use only with the respective CAs – Certificates of Approval.
Precautions and guidelines for safe handling: Use personal protective equipment (PPE) to avoid direct contact with the product. Handling the product in a well-ventilated place. Use a gloves and full body clothing when handling this product.

Storage:
Appropriate: Keep container tightly closed in a dry, cool and well-ventilated area.

Keep in a cool, dry place in unopened original packaging.
To avoid: Avoid extreme heat.
Hygiene measures:
Appropriate: Always sanitize your hands before handling any food, as there is a risk of food contamination. Contaminated clothing must be washed and sanitized before use. Always keep gloves free from moisture and decontaminated.
Inappropriate: Direct contact with the product and/or its residues.
Technical measures:
Suitable conditions: Observe all necessary measures to prevent the product from accidentally leaking into sewers or water courses, in the event of rupture of containers or transfer systems. Store in a dry, cool and ventilated place, protected from direct sunlight. Store in tightly closed original container. Avoid contact with acids or alkaline agents.
Safe materials for packaging:
Recommendations: Original packaging.
Not suitable: Any other packaging.
Further information: Protect from extreme cold, heat and sunlight.

8. - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Parameters of specific control: Not applicable. Material does not contain a relevant amount of materials with critical values.

Components with parameters to be controlled in the workplace:
Biological indicators: Not found.
Other limits and values: N.A.

Measures of engineering control: Handling the product in a place with good natural or mechanical ventilation, in order to keep the concentration of vapors/dust below the tolerance limit. Provide mechanical ventilation and direct exhaust system to the outside environment. These measures help to reduce exposure to the product. It is recommended to make emergency showers and eye washes available in the work area. Engineering control measures are most effective in reducing product exposure.

Appropriate Personal Protective Equipment:
Protection for the eyes/face: Common Safety Glasses is required for safe use of the product.
Skin protection: Protective clothing at work.
Respiratory protection: The use of a mask for organic vapors is recommended as a good practice. The product does not give off vapors at room temperature.
Hand protection: PVC gloves.
Thermal hazards: Not available.
Further information: Avoiding contact with the skin, eyes and mucosa for a long period, carrying out instantaneous washing of the affected areas. Avoid wearing contact lenses while handling this product.

9. - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.
Color: No staining (transparent).
Odor: Odorless.
Odor threshold: not available.
pH (25°): 7.0.
Melting point / freezing point: < -50°C.
Initial boiling point and boiling temperature range: 101°C.
Flash point: > 300°C. (open vase).
Evaporation rate: not available.
Flammability (solid, gas): Product is not self-igniting.
Lower/upper flammability or explosiveness limit: Product is not self-igniting.
Steam pressure: not available.
Vapor Density: Not available.
Relative Density: 0.965 - 0.978 g/cm3.

Solubility (in water): Virtually insoluble. Insoluble in cyclohexanol, methanol, paraffin oil and vegetable oil Partition **coefficient - n-octane/water:** not available.
Auto-ignition temperature: 410'0.
Decomposition temperature: > 250°C.
Viscosity: not available.

10. - STABILITY AND REACTIVITY

Specific conditions:
Reactivity: Stable product if stored and handled under the proper and indicated conditions.
Chemical stability: Stable under usual handling and storage conditions.
Possibility of hazardous reactions: It does not have conditions that by themselves will cause particularly dangerous reactions.
Conditions to avoid: There is no relevant information.
Incompatible materials: There is no relevant information.
Hazardous decomposition products: There is no relevant information.

11. - TOXICOLOGICAL INFORMATION

Information according to the different routes of exposure:
Acute toxicity:

Dimethylsiloxane	63148-62-9
Oral (LD50)	> 17,000 mg/kg (rat)
Dermal (LD50)	> 2,000 mg/kg (rabbit)

Skin corrosion/irritation.
Based on available data, possible irritant effect.

Severe ocular lesions/eye irritation
Based on available data, possible irritant effect.

Respiratory or skin sensitization
Based on available data, possible sensitizing effect.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified as a human carcinogen.

Reproductive toxicity
There is no evidence of adverse effects on reproductive organs or fertility.

Specific target organ toxicity - single exposure
The product is not expected to exhibit specific target organ toxicity - single exposure.

Specific target organ toxicity - repeated exposure
The product is not expected to present specific target organ toxicity – repeated exposure.

Aspiration hazard
The product is not expected to present an aspiration hazard.

Additional Information
Product: Based on available data, the assessment criteria are not met.

12. - ECOLOGICAL INFORMATION

Environmental effects, behaviors and impacts of the product:
Ecotoxicity:
Product not classified as hazardous to the aquatic environment. Risk of contamination of soils and rivers in the event of a large volume spill.

Persistence and degradability:

Non-biodegradable product.

Bio accumulative potential:
Unexpected bioaccumulation.

Mobility in soil
Tendency to reach water table - Virtually insoluble.

Product: Ecological additional information: Not available.

13. - CONSIDERATIONS ON TREATMENT AND DISPOSAL

Recommended methods for final disposal:
The treatment and disposal of product residues must be done in a suitable environment, by people trained in the use of special equipment and the recommended PPE's to avoid contact with the product, its vapors or mists. Leaks must be contained and collected for later disposal after neutralization.
Product:
Ensure all Federal, State and local agencies receive proper notice of spills and disposal methods. CONAMA Resolution 005/1993, Law No. 12,305, as of August 2, 2010 (National Solid Waste Policy).
Product waste:
Consult environmental regulatory agencies for advice on acceptable regulatory practices. Come in contact with relevant local authorities. It can be incinerated when in compliance with local regulations. Or dispose of in an approved chemical waste landfill.
Used Package:
Empty containers must be drained and covered before handling and transport operations. If the package is not properly washed and decontaminated, it is considered to contain the product.

14. - TRANSPORT INFORMATION

National and International Regulations
Land:
Resolution No. 5947 of June 1, 2021 of the Brazilian National Land Transport Agency (ANTT), *Approves the Supplementary Instructions to the Land Transport of Dangerous Goods Regulations and their amendments.*
UN Number: Product not covered by current regulations on the transport of dangerous products.
Appropriate name for shipment: -
Risk class: -
Risk subclass: -
Risk number: -
Packing group: -

Waterway:
DPC – Directorate of Ports and Coasts (Transport in Brazilian waters) Maritime Authority Regulations (NORMAM)
NORMAM 01/DPC: Vessels Used in Open-seas Navigation
UN number: Product not covered by current regulations on the transport of dangerous products.
Appropriate name for shipment: -
Risk class: -
Risk subclass: -
Risk number: -
Packing group: -

Air Transport:
ANAC - National Civil Aviation Agency - Resolution No. 129 as of January 8, 2009
RBAC N°175 - (BRAZILIAN CIVIL AVIATION REGULATION) - TRANSPORTATION OF DANGEROUS ITEMS IN CIVIL AIRCRAFT
IS No. 175-001 - SUPPLEMENTARY INSTRUCTION - IS
ICAO - "International Civil Aviation Organization" - Doc 9284-NA/905
IATA - "International Air Transport Association"
Dangerous Goods Regulation (DGR)

UN number: Product not covered by current regulations on the transport of dangerous products.
Appropriate name for shipment: -
Risk class: -
Risk subclass: -
Risk number: -
Packing group: -

15. - REGULATIONS INFORMATION

Specific regulations for the chemical product:
Federal Decree No. 2,657, as of July 3, 1998;
Standard ABNT-NBR 14725:2019;
Ordinance No. 229, of May 24, 2011 - Amends Regulatory Standard No. 26.

16. - OTHER INFORMATION

The information on this sheet corresponds to the current state of our knowledge and experience of the product and is not exhaustive. It applies to the product under the conditions specified, unless otherwise stated. In case of combinations or mixtures, make sure that no new danger can appear. This information does not, in any case, exempt the user of the product from complying with all legislative, regulatory and administrative texts relating to the product, safety, hygiene and protection of human and environmental health.

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