

MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: SILICON FLUIDLS 6005

Silicone Fluid SILICON FLUID LS 6005**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Silicone FluidLS 6005

MANUFACTURER: Details

NISHKA ALLIANCE LLP.

Plot no.639, 100 Shed Area, Silvassa Road

G.I.D.C VAPI -396195 GUJARAT.

PRODUCT USE: Chemical intermediate, Intermediate, Additive.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	Substance		
Chemical name	CAS No	EC No	Weight-%
Hexamethyldisiloxane	107-46-0	203-492-7	>=95

SECTION 3: HAZARDS IDENTIFICATION**GHS - Classification**

Acute aquatic toxicity Category 1

Chronic aquatic toxicity Category 2

FLAMMABLE LIQUIDS Category 2

Label Elements**Signal Word**

DANGER

Hazard statements

Very toxic to aquatic life

Toxic to aquatic life with long lasting effects

Highly flammable liquid and vapor

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Precautionary Statements - Prevention

- Avoid release to the environment
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Wear protective gloves/protective clothing/eye protection/face protection

Skin

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

FIRE

- In case of fire: Use CO2, dry chemical, or foam for extinction

Spill

- Collect spillage

Precautionary Statements - Storage

- Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant

Other Hazards

No information available

SECTION 4: FIRST AID MEASURES

General advice Immediate medical attention is required In case of accident or unwellness, seek medical advice immediately

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Keep eye wide open while rinsing If symptoms persist, call a physician

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes If symptoms persist, call a physician

Inhalation Move victim to fresh air If breathing is irregular or stopped, administer artificial respiration Administer oxygen if breathing is difficult Call a physician

Ingestion Do NOT induce vomiting Clean mouth with water If symptoms persist, call a physician

Self-protection of the first aider Remove all sources of ignition

Symptoms None known.

Note to physicians Keep victim warm and quiet

SECTION 5: FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Dry chemical, CO2, water spray or regular foam Water spray, fog or regular foam Use water spray or fog; do not use straight

streams Move containers from fire area if you can do it without risk

Unsuitable Extinguishing Media

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient

Specific extinguishing methods

Vapors may form explosive mixtures with air Vapors may travel to source of ignition and flash back Most vapors are heavier than

air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) Vapor explosion hazard indoors, outdoors or in sewers Runoff to sewer may create fire or explosion hazard Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water Very toxic to aquatic life Toxic to aquatic life with long lasting effects

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Formaldehyde.

Protective equipment and precautions for firefighters

Do not allow run-off from fire-fighting to enter drains or water courses

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Remove all sources of ignition Evacuate personnel to safe areas Ensure adequate ventilation, especially in confined areas Use personal protective equipment as required

Special danger of slipping by leaking/spilling product Do not breathe gas/fumes/vapor/spray

Take precautionary measures against static discharges

Environmental Precautions Prevent further leakage or spillage if safe to do so Prevent product from entering drains Do

not flush into surface water or sanitary sewer system

Methods for Containment A vapor suppressing foam may be used to reduce vapors Dike far ahead of liquid spill for later disposal

Methods for cleaning up Dam up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Pick up and transfer to properly labeled containers Clean contaminated surface thoroughly Use only non-sparking tools.

OTHER INFORMATION Water spray may reduce vapor; but may not prevent ignition in closed spaces.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep cool and dry place. Ensure adequate ventilation, especially in confined areas Keep away from heat, sparks,

flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity)

Take precautionary measures against static discharges Use spark-proof tools and explosion-proof equipment

OTHER PRECAUTIONS: Store in original container with cap tightly sealed.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Engineering controls Provide adequate ventilation as well as local exhaust at critical locations

Personal protective equipment

Eye/face Protection Wear safety glasses with side shields (or goggles)

Skin and Body Protection Antistatic footwear Wear fire/flame resistant/retardant clothing Suitable protective clothing Wear protective gloves To protect the wearer, gloves must be the correct fit and be used properly Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves

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Respiratory protection Respiratory protection necessary at: insufficient ventilation exposure limit overshoot

insufficient exhaust Handling larger quantities Use : Positive Pressure Self-Contained Breathing Apparatus (SCBA) / Filtering device (full mask or mouthpiece) with filter

General hygiene considerations

When using do not eat, drink or smoke Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear colorless liquid.

Odour : Characteristic

pH : No information available

Melting point/freezing point : approx. -68 °C / -90 °F

Boiling point / boiling range : approx. 100 °C / 212 °F

Flash Point : approx. -6 °C / 21 °F

Evaporation Rate: No information available

Flammability (solid, gas) No information available

Flammability Limit in Air :

Upper flammability limit: 26.00 Vol-%

Lower flammability limit: 0.68 Vol-%

Vapor pressure: approx. 44.0 hPa @ 20°C

Water Solubility: Immiscible

Viscosity: CS 6005

SECTION 10: STABILITY AND REACTIVITY

Reactivity : No data available.

Chemical stability : Stable under normal conditions

Conditions to Avoid : Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric

motors and static electricity)

Incompatible Products : Incompatible with oxidizing agents Acids Bases

Hazardous decomposition products : Thermal decomposition can lead to release of irritating and toxic gases and vapors Carbon

dioxide (CO₂) Carbon monoxide Nitrogen oxides (NO_x) If this product is heated to >150

°C, trace quantities of formaldehyde may be released, and adequate ventilation is required.

Possibility of hazardous reactions : None under normal processing.

SECTION 11: TOXICOLOGICAL INFORMATION**Acute Toxicity**

The following values **Information on likely routes of exposure**

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation : No data available.

Eye Contact : No data available.

Skin contact : No data available.

Ingestion : No data available.

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are calculated based on chapter 3.1 of the GHS document

Unknown acute toxicity : 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical name Oral LD50 Dermal LD50 Inhalation LC50

Hexamethyldisiloxane > 5000 mg/kg (Rat) - approx. 15956 ppm (Rat 4h)

Chronic Toxicity

Carcinogenicity : This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Skin corrosion/irritation : No information available

Serious eye irritation : No information available

irritation : No information available

corrosivity : No information available

Sensitization : No information available

Neurological Effects : No information available

Germ Cell Mutagenicity : No information available

Reproductive Toxicity : No information available

Developmental toxicity : No information available

Teratogenicity : No information available

Target organ effects : No information available

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Very toxic to aquatic life Toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Product Information**Acute (short-term) algae toxicity**

EC50 : No information available

EC0 : No information available

IC50 : No information available

IC0 : No information available

ErC50 : No information available

EbC50 : No information available

Acute (short-term) fish toxicity

LC50 : No information available

LC0 : No information available

EC50 : No information available

EC0 : No information available

Acute (short-term) aquatic invertebrate toxicity

EC50 : No information available

Chronic (long-term) algae toxic

NOEC : No information available

LOEC : No information available

Chronic (long-term) fish toxicity

NOEC : No information available

LOEC : No information available

Chronic (long-term) aquatic invertebrate toxicity

NOEC : No information available

LOEC : No information available

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Chemical name Algae/aquatic plants Fish Crustacea

Hexamethyldisiloxane *NOEC*: ≥ 0.04 mg/l (*Cyprinus carpio*); *IC50*: > 0.55 mg/l (96h)
LC50: approx. 0.46 mg/l

(*Oncorhynchus mykiss* 96h)

NOEC: approx. 0.08 mg/l (*Daphnia magna* 504h); *EC50*: > 0.37 mg/l
 (*Daphnia magna* 48h)

Persistence and degradability

Not readily biodegradable

Product Information

Biodegradation : No information available

BOD : No information available

ThCO₂ : No information available

DOC : No information available

Chemical name Biodegradation

Hexamethyldisiloxane 107-46-0

Biodegradation (Degree of elimination): 2% (672h)

Bioaccumulation**Product Information**

Bioaccumulation (factor) : No information available

Mobility

No information available.

Chemical name Partition coefficient

Hexamethyldisiloxan : 4.2

Other adverse effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state & federal regulations.

SECTION 14: TRANSPORT INFORMATION**ADR**

UN/ID no UN1993

Proper Shipping Name Flammable liquid, n.o.s.

Hazard Class 3

Packing group II

Description UN1993, Flammable liquid, n.o.s. (Hexamethyldisiloxane), 3, II, (D/E)

Environmental Hazard yes

Special Provisions 274, 601, 640C

Classification code F1

Tunnel restriction code (D/E)

Limited quantity (LQ) 1 L

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ADR Hazard Id (Kemmler Number)

33

RID**UN/ID no**

UN1993

Proper Shipping Name Flammable liquid, n.o.s.**Hazard Class**

3

Packing group

II

Description

UN1993, Flammable liquid, n.o.s. (Hexamethyldisiloxane), 3, II

Environmental Hazard yes**Classification cod**

F1

Limited quantity (LQ)

1 L

IMDG**UN/ID no**

UN1993

Proper Shipping Name Flammable liquid, n.o.s.**Hazard Class**

3

Packing group

II

Description

UN1993, Flammable liquid, n.o.s. (Hexamethyldisiloxane), 3, II, (-6°C c.c.),

Marine pollutant

This material meets the definition of a marine pollutant

Special Provisions

274

EmS-No

F-E, S-E

Limited quantity (LQ)

1 L

IATAUN/ID no

UN1993

Proper Shipping Name Flammable liquid, n.o.s.**Hazard Class**

3

Packing group

II

Description

UN1993, Flammable liquid, n.o.s. (Hexamethyldisiloxane), 3, II

Special Provisions

A3

ERG Code

3H

Limited quantity (LQ)

1 L

SECTION 15: REGULATORY INFORMATION

OSHA Hazards: Combustible Liquid.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a section 304 EHS RQ. SARA 311/312 Hazards: Fire Hazard

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

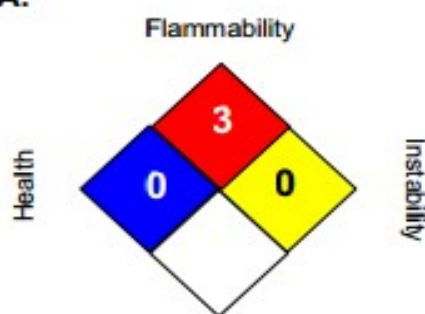
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SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16: OTHER INFORMATION DATA

Further information:

NFPA:**HMIS III:**

0 = not significant 1 = Slight

The information and data contained in this 'Material Safety Data Sheet' are based on our present state of scientific and technical knowledge. NISHKA ALLIANCE LLP Does not guarantee the properties of the described products in terms of legal warranty regulations. The physical data presented herein does not Support to be the specifications the information provided relates only to the specific material identified at the top of this MSDS and may not be valid when the MSDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the MSDS material in the user's end product, if applicable.