

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 **Product identifier** : 0011680005, 0011680006, 0011680007, 0011680015, 0011680016,
 1.2 **Trade name** : FLUID FORCE series, GEL FORCE series
 1.3 **Relevant identified uses of the substance or mixture and uses advised against**:
 1.3.1. Relevant identified uses: Isolation of electrical or electronic material.
 1.3.2. Uses advised against: No data available
 1.4 **Company Identification** :
 RAYTECH S.r.l.
 Via Enrico Fermi 11, 13, 17
 20019 Settimo Milanese (MI) - ITALIA Telephone: +39 (02) 33500147
 Fax: +39 (02) 33500287 e-mail: info@raytech.it

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

The product has not been classified as hazardous according to the legislation in force.

2.1.1 Classification according to Regulation (EC) No 1272/2008 as amended. Not classified

2.2 Label elements:

Supplemental label information:
 EUH210: Safety data sheet available on request.

Hazard summary

Physical Hazards: No specific recommendations.

Health Hazards

Inhalation: Not applicable

Eye contact: No specific symptoms noted.

Skin Contact: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Other Health Effects: No other information noted.

Environmental Hazards: No hazard identified as the maximum bioavailable concentration of Octamethylcyclotetrasiloxane (D4) is lower than the classification cut-off value (see Section 12 of this SDS).

Results of PBT and vPvB assessment: This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Endocrine Disruption - Health: the substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine Disruption - Environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

2.3 Other hazards:

No other information noted.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Cross linked Elastomer. The product is supplied already cured. In the table below the percent concentrations of impurity, not intentionally added, are referred to the raw materials before crosslinking. The residual content of these impurity in the final cured product is expected to be below 0,1 %.

3.2 Mixtures: The mixture contains these substances:

Chemical name	Concentration*	Type	CAS-No.	EC No.	REACH Registration No.	Notes
Dodecamethylcyclohexasiloxane	0,1 - <1%	Impurities	540-97-6	208-762-8	Not relevant.	## vPvB
Decamethylcyclopentasiloxane	0,1 - <1%	Impurities	541-02-6	208-764-9	Not relevant.	## vPvB
octamethylcyclotetrasiloxane	0,1 - <0,25%	Impurities	556-67-2	209-136-7	Not relevant.	## PBT, vPvB

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. # This substance has workplace exposure limit(s).

This substance is listed as SVHC.

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance. ED: Endocrine Disruptor

3.3 Classification:

Chemical name	Classification	Specific concentration limits / ATE / M-Factor:	Notes
Dodecamethylcyclohexasiloxane	None known.		
Decamethylcyclopentasiloxane	None known.		
octamethylcyclotetrasiloxane	Flam. Liq. 3 H226; Repr. 2 H361f; Aquatic Chronic 1 H410;	Aquatic Toxicity (Acute): 1 Aquatic Toxicity (Chronic): 10	

The full text for all H-statements is displayed in section 16.

4. FIRST AID MEASURES

General information:

No specific first aid measures noted. Get medical attention if symptoms occur.

4.1 Description of first aid measures:

In case of respiratory exposure: Not relevant.

In case of skin contamination: Remove contaminated clothing and shoes. Wash with soap and water

In case of intrusion into eye: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

In case of oral intake: Do not induce vomiting. Rinse mouth thoroughly.

4.2 **Most important symptoms and effects, both acute and delayed:** No data available.

4.3 **Indication of any immediate medical attention and special treatment needed:** No data available.

5. FIREFIGHTING MEASURES

General Fire Hazards: No specific recommendations.

5.1 Extinguishing media:

Suitable extinguishing media: Foam. Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture: No data available. For further information, refer to section 10: "Stability and Reactivity".

5.3 Advice for firefighters: Water spray should be used to cool containers.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep away from Alkalis and caustic products. Eliminate all sources of ignition.

For emergency responders: No data available.

6.2 Environmental precautions: Collect spillage. Prevent entry into waterways, sewer, basements or confined areas.

6.3 Methods and material for containment and cleaning up: To clean the floor and all objects contaminated by this material, use an appropriate solvent. (cf. : § 9) Flush area with plenty of water.

6.4 Reference to other sections: Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: For further information, refer to Section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.

7.2 Conditions for safe storage, including any incompatibilities: Keep away from incompatible materials, open flames, and high temperatures

7.3 Specific end use(s): No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: None of the components have assigned exposure limits

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: No data available.

8.2.2 In Individual protection measures, such as personal protective equipment:

8.2.2.1 Eye/face protection: Safety Glasses.

8.2.2.2 Skin protection:

Hand protection: Material: Nitrile. Material: Polyvinyl chloride (PVC). Material: Rubber or plastic.

Other: It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.

8.2.2.3 Respiratory protection: No specific precautions.

8.2.2.4 Thermal hazards: No specific precautions.

8.2.3 Environmental exposure controls: No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Physical state: Liquid Form: Viscous Color: Colourless.
Odour:	Odorless
Odour threshold:	-
pH:	-
Melting point/freezing point :	-
Initial boiling point and boiling range:	-
Flash point:	> 200 °C (Closed cup according to method ASTM D56.)
Evaporation rate:	-
Flammability (solid, gas):	-
Upper/lower flammability or explosive limits:	-
Vapour pressure:	< 0,1 hPa (20 °C)
Vapour density:	-
Relative density:	Approximate 1 kg/dm ³ (20 °C)
Solubility(ies):	Solubility in Water: Insoluble Solubility (other): Diethylether: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Acetone: Very slightly soluble. Ethanol: Very slightly soluble.
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature:	> 400 °C
Decomposition temperature:	>> 200 °C
Viscosity:	150 mm ² /s (20 °C)
Explosive properties:	-
Oxidising properties:	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

9.2 Other information: No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity: No data available.

10.2 Chemical stability: The product is stable under normal conditions.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: No data available.

10.5 Incompatible materials: No data available.

10.6 Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure



Issue Date: Aug 1st, 2023

Inhalation: No data available.
Ingestion: No data available.
Skin Contact: No data available.
Eye contact: No data available.

11.1 Information on toxicological effects:

Acute toxicity:

Oral

Product:

Not classified for acute toxicity based on available data.

Dermal

Product:

Not classified for acute toxicity based on available data.

Inhalation

Product:

No effects expected (assessment based on ingredients).

Repeated dose toxicity

Product:

No effects expected (assessment based on ingredients).

Skin Corrosion/Irritation

Product:

No effects expected (assessment based on ingredients).

Serious Eye Damage/Eye Irritation

Product:

No effects expected (assessment based on ingredients).

Respiratory or Skin Sensitization:

Product:

No effects expected (assessment based on ingredients).

Germ Cell Mutagenicity:

In vitro:

Product:

No effects expected (assessment based on ingredients).

In vivo:

Product:

No effects expected (assessment based on ingredients).

Carcinogenicity:

Product:

No effects expected (assessment based on ingredients).

Reproductive toxicity:

Product:

No effects expected (assessment based on ingredients).

Reproductive toxicity (Fertility):

Product:

No effects expected (assessment based on ingredients).

Developmental toxicity (Teratogenicity)

Product:

No effects expected (assessment based on ingredients).

Specific Target Organ Toxicity - Single Exposure:

Product:

No effects expected (assessment based on ingredients).

Specific Target Organ Toxicity - Repeated Exposure:

Product:

No effects expected (assessment based on ingredients).

Aspiration Hazard:

Product:

No effects expected (assessment based on ingredients).

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Acute toxicity

Fish:

Products: No effects expected (assessment based on ingredients).

Chronic Toxicity:

Fish:

Products: No effects expected (assessment based on ingredients).

Aquatic Invertebrates:

Fish:

Products: No effects expected (assessment based on ingredients).

Toxicity to Aquatic Plants:

Fish:

Products: No effects expected (assessment based on ingredients).

12.2 Persistence and degradability:

Biodegradation:

Product: Not applicable

BOD/COD Ratio:

Product: No data available

12.3 Bioaccumulative potential:

Product: No data available

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment:

None Reported

12.6 Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

General information: The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal methods/Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site

14. TRANSPORT INFORMATION

14.1 UN number: No data available.

14.2 UN proper shipping name: No data available.

14.3 Transport hazard class(es): No data available.

14.4 Packing group: No data available.

14.5 Environmental hazards: No data available.

14.6 Special precautions for user: No data available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

The substances in the mixture are not subject to authorisation under Title VII or restrictions under Title VIII of Regulation (EC) No. 1907/2006.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC;

Regulation (EC) No 1272/2008 of the European parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006;

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations;

COUNCIL DIRECTIVE of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (67/548/EEC).

15.2 **Chemical safety assessment:** Chemical safety assessment is not available.

16. OTHER INFORMATION

List of relevant risk phrases and hazard statements:

Instructions for the training: Product handling instruction shall be included into the educational system about the safety work (initial training, training at the workplace, repeated training) according to specific conditions at the workplace.

Recommended restrictions on use (i.e. non-statutory recommendations by supplier):

Mixture should not be used for any other purpose than for which is appointed (point 1.2). Because of the fact that specific conditions of use of mixture are out of supplier's control, it is responsibility of the user to adjust the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and it cannot be considered as technical information about product.

Sources of key data used to compile the Safety Data Sheet:

SDS was elaborated according to requirements set in Annex II of Regulation (EC) No 1907/2006 of the European Parliament and of the Council. SDS was prepared using data from the producer.

Purpose of SDS:

Purpose of this SDS is to provide relevant information for users of product to ensure proper handling and control of risks/hazards.

References:

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Wording of the H-statements in section 2 and 3

H226 Flammable liquid and vapor.

H361f Suspected of damaging fertility.

H413 May cause long lasting harmful effects to aquatic life.

- End of the document -