

Revision Date: 04/21/2022

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: TEGO® Flow ATF 2

Chemical name: Polydimethylsiloxane

Other means of identification

None.

Recommended restrictions

Recommended use: Industrial use Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

2 Turner Place

Piscataway, NJ 08854

USA

Telephone : +1 732 981 5000

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Toxic to reproduction Category 2

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Chronic hazards to the aquatic Category 3

environment

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement:

Highly flammable liquid and vapor. Suspected of damaging fertility.

Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep

container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Wear protective

gloves/protective clothing/eye protection/face protection. Use personal

protective equipment as required.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower]. IF exposed or concerned: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-

resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Chemical name:

Polydimethylsiloxane

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Hexamethyl disiloxane		107-46-0	5 - <10%
octamethylcyclotetrasiloxane		556-67-2	0.25 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.



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4. First-aid measures

Description of necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: fresh air supply, consult a doctor if feeling unwell.

Skin Contact: In case of contact with skin wash off with soap and water. In case

of discomfort: Supply with medical care.

Eye contact: In case of contact with eyes rinse thoroughly with water. In case

of discomfort: Supply with medical care.

Ingestion: Thoroughly clean the mouth with water In case of discomfort:

Supply with medical care.

Personal Protection for First-aid

Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Up to now no symptoms are known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

Special hazards arising from the

substance or mixture:

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide Under certain

conditions of combustion traces of other toxic substances

cannot be excluded

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: Keep away from sources of ignition. Take action to prevent

static discharges. Vapours may form explosive mixtures with

air. Cool endangered containers by water spray

Special protective equipment for fire-

fighters:

Do not inhale explosion and/or combusition gases. Self-

contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Use personal protective equipment. Keep away sources of

ignition. Ensure adequate ventilation.

Accidental release measures: No data available.



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Methods and material for containment and cleaning up:

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in

accordance with the regulations.

Environmental Precautions:

Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and

general ventilation):

Provide good ventilation of working area. Use local exhaust

ventilation if necessary.

Safe handling advice: Avoid contact with skin and eyes. Do not inhale

gases/vapours/aerosols.Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory

protection during spraying.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls Provide of

Provide good ventilation of working area. Use local exhaust

ventilation if necessary.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles

Skin Protection

Hand Protection: Material: Nitrile rubber.

Break-through time: 480 min

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter

apparatus, combination filter A-P2



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Hygiene measures: When using do not eat, drink or smoke. Wash hands before

breaks and immediately after handling the product. Remove

soiled or soaked clothing immediately.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Colorless

Odor: specific to the product

Odor Threshold:

Freezing point:

Boiling Point:

Flammability:

not measured

> 194 °F/> 90 °C

not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

Explosive limit - lower: not measured

Flash Point: 46 - 61 °F/8 - 16 °C (DIN EN ISO 2719)

Self Ignition Temperature: not measured

Decomposition Temperature: not measured

pH: Not applicable

Viscosity

Dynamic viscosity: 32 - 38 mPa.s (77 °F/25 °C, DIN 53015)

Kinematic viscosity: 32 - 38 mm2/s **Flow Time:** No data available.

Solubility(ies)

Solubility in Water: Insoluble
Solubility (other): not measured
Partition coefficient (n- not measured

octanol/water):

Vapor pressure:not measuredRelative density:not measured

Density: 0.92 - 0.94 g/cm3 (77 °F/25 °C) (DIN 51757)

Bulk density:Relative vapor density:
No data available.
not measured

Other information

Explosive properties:not measuredOxidizing properties:not oxidizingMinimum ignition temperature:not measured

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions".

Chemical Stability: The product is stable under normal conditions.



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Possibility of hazardous reactions: No hazardous reactions with proper storage and handling

Conditions to avoid: Open flames, sparks or input of much heat

Incompatible Materials: Not known.

Hazardous Decomposition

Products:

None with proper storage and handling.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Dermal

Product: LD 50 (ATEmix): 2,248 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities



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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

Ames test (OECD 471): negative Hexamethyl disiloxane

Chromosomal aberration (OECD 473): negative

gene mutation test (OECD 476): negative

octamethylcyclotetrasilox Ames test (OECD 471): negative

ane

Chromosomal aberration (OECD 473): negative gene mutation test (OECD 476): negative

In vivo

Product: No data available.

Components:

Hexamethyl disiloxane Chromosomal aberration (OECD 475) Intraperitoneal (Rat, Male): negative

octamethylcyclotetrasilox Micronucleus test (OECD 474) Inhalation - vapor (Rat): negative

Chromosomal aberration (OECD 478) Oral (Rat): negative

Chromosomal aberration (OECD 475) Inhalation - vapor (Rat, Female,

Male): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure No data available. **Product:**

Specific Target Organ Toxicity - Repeated Exposure Product: No data available.

Aspiration Hazard

Product: Not classified

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Hexamethyl disiloxane EC 50 (Algae (Pseudokirchneriella subcapitata), 95 h): > 0.55 mg/l (OECD

201)

octamethylcyclotetrasilox EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-EPA-



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ane method)

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-EPA-

method)

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Hexamethyl disiloxane octamethylcyclotetrasilox

NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): 1 mg/l (OECD 201) NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 μ g/l (US-EPA-

method)

Toxicity to microorganisms

Product: No data available.

Persistence and Degradability

Biodegradation

ane

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Mobility in soil:

Product No data available.

Results of PBT and vPvB assessment:

Product No data available.

Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal. Based

on expert judgement and on experimental data within an analogue approach, the maximum estimated aqueous concentration of typical impurities of siloxane polymers, migrating into water is below their

established no-effect threshold value for aquatic organisms.



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13. Disposal considerations

Disposal methods: In accordance with local authority regulations, take to special waste

incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the

receiver must be informed about possible hazards.

14. Transport information

Domestic regulation

49 CFR

UN/ID/NA number : UN 1993

Proper shipping name : Flammable liquids, n.o.s.

(hexamethyldisiloxane)

Class : 3
Packing group : II
Labels : 3
ERG Code : 128
Marine pollutant : no

International Regulations

IATA-DGR

UN/ID No. : UN 1993

Proper shipping name : Flammable liquid, n.o.s.

(hexamethyldisiloxane)

Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

IMDG-Code

UN number or ID number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(hexamethyldisiloxane)

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)



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None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Reproductive toxicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

Inventory Status:

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Included on Inventory.	

16.Other information, including date of preparation or last revision

HMIS Hazard ID

Health	1
Flammability	3
Physical Hazards	0
PERSONAL PROTECTION	В

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

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Version #: 2.0

Further Information: CTFA: complies

Revision Information Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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