Polyether modified siloxane fluid TPD-348

Version No: **1.0**
Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)

SDS202305237216
Issue Date:**25/05/2023**

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name: Polyether modified siloxane fluid TPD-348

Other means of identification: Silicone Agricultural Adjuvant, Silicone Wetting Agent

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Agriculture additives, Coating additives, Cleaning additives

Uses advised against: No specific uses advised against are identified.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Supplier name	**Fuzhou Topda New Material Co.,Ltd.**
Address	17-16,C3# Building,Cangshan Wanda Plaza,216 Pushang Avenue,Fuzhou, 350007,China.
Telephone	+86-591-86396155
Email	contact@fluorochemie.com
Emergency Telephone	+86-15859107755

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	H318 - Serious Eye Damage/Eye Irritation Category 1, H332 - Acute Toxicity (Inhalation) Category 4, H315 - Skin Corrosion/Irritation Category 2, H412 - Hazardous to the Aquatic Environment Long-Term Hazard Category 3

2.2. Label elements

Hazard pictogram(s)

Signal word: **Danger**

Hazard statement(s)

H318: Causes serious eye damage.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H412: Harmful to aquatic life with long lasting effects.

Supplementary Phrases

Not Applicable

Precautionary statement(s) General

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read carefully and follow all instructions.

Precautionary statement(s) Prevention

P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves, protective clothing, eye protection and face protection.
P261: Avoid breathing mist/vapours/spray.
P273: Avoid release to the environment.
P264: Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER/doctor/physician/first aider.
P302+P352: IF ON SKIN: Wash with plenty of water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

Precautionary statement(s) Storage
Not Applicable

Precautionary statement(s) Disposal
P501: Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards
REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances
See 'Composition on ingredients' in Section 3.2

3.2.Mixtures

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 67674-67-3 2.Not Available 3.Not Available 4.Not Available	80-87	Polyalkyleneoxide Modified Heptamethyltrisiloxane	Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity (Inhalation) Category 4, Hazardous to the Aquatic Environment Long-Term Hazard Category 3; H318, H332, H412	Not Available	Not Available
1. 27274-31-3 2.Not Available 3.Not Available 4.Not Available	13-20	Allyloxypolyethyleneglycol	Flammable Liquids Category 3, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H226, H315, H319	Not Available	Not Available

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact

If this product comes in contact with the eyes:
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If skin contact occurs:
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

Inhalation

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

Ingestion

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

4.2 Most important symptoms and effects, both acute and delayed
See Section 11

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media
- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture

Fire Incompatibility

None known.

5.3. Advice for firefighters

Fire Fighting

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.
- Prevent, by any means available, spillage from entering drains or water courses.

Fire/Explosion Hazard

- Non combustible.
- Not considered a significant fire risk, however containers may burn.

May emit poisonous fumes.
May emit corrosive fumes.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

Minor Spills

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.

Major Spills

Moderate hazard.
- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- **DO NOT** allow clothing wet with material to stay in contact with skin

Fire and explosion protection

See section 5

Other information

7.2. Conditions for safe storage, including any incompatibilities

Suitable container

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

None known

Hazard categories in accordance with Regulation (EC) No 1272/2008

Not Available

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of

Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Not Available	Not Available	Not Available

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available

Not Applicable

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.
The basic types of engineering controls are:
Process controls which involve changing the way a job activity or process is done to reduce the risk.

8.2.2. Individual protection measures, such as personal protective equipment

Eye and face protection

– Safety glasses with side shields.
– Chemical goggles.
– Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

Skin protection

See Hand protection below

Hands/feet protection

– Wear chemical protective gloves, e.g. PVC.
– Wear safety footwear or safety gumboots, e.g. Rubber

Body protection

See Other protection below

Other protection

– Overalls.
– P.V.C apron.
– Barrier cream.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : Light yellow to amber transparent liquid

Physical state	Liquid	**Relative density (Water = 1)**	Not Available
Odour	Slight	**Partition coefficient n-octanol / water**	Not Available
Odour threshold	Not Available	**Auto-ignition temperature (°C)**	Not Available
pH (as supplied)	5.0-7.0	**Decomposition temperature (°C)**	Not Available
Melting point / freezing point (°C)	Not Available	**Viscosity (cSt)**	30-50
Initial boiling point and boiling range (°C)	Not Available	**Molecular weight (g/mol)**	Not Available
Flash point (°C)	Not Available	**Taste**	Not Available
Evaporation rate	Not Available	**Explosive properties**	Not Available
Flammability	Not Flammable	**Oxidising properties**	Not Available
Upper Explosive Limit (%)	Not Available	**Surface Tension (dyn/cm or mN/m)**	<20.5mN/m
Lower Explosive Limit (%)	Not Available	**Volatile Component (%vol)**	Not Available
Vapour pressure (kPa)	Not Available	**Gas group**	Not Available
Solubility in water	Not Available	**pH as a solution (1%)**	Not Available

Vapour density (Air = 1)	Not Available	**VOC g/L**	Not Available
Nanoform Solubility	Not Available	**Nanoform Particle Characteristics**	Not Available
Cloud Point (°C)	<10		

9.2. Other information
Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity:

See section 7.2

10.2. Chemical stability:

- Unstable in the presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions:

See section 7.2

10.4. Conditions to avoid:

See section 7.2

10.5. Incompatible materials:

See section 7.2

10.6. Hazardous decomposition products:

See section 5.3

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Polyether modified siloxane fluid TPD-348	No data available for product
Acute Toxicity	Harmful if inhaled.
Skin Irritation/Corrosion	Causes skin irritation.
Serious Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin sensitisation	Not Classified
Mutagenicity	Not Classified
Carcinogenicity	Not Classified
Reproductivity	Not Classified
STOT - Single Exposure	Not Classified
STOT - Repeated Exposure	Not Classified
Aspiration Hazard	Not Classified

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties
No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information
See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

Polyether modified siloxane fluid TPD-348	No data available for product

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.
Wastes resulting from use of the product must be disposed of on site or at approved waste sites.
DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

12.5. Results of PBT and vPvB assessment

	P	B	T
Relevant available data	Not Available	Not Available	Not Available
PBT	No	No	No
vPvB	No	No	No

PBT Criteria fulfilled?	No
vPvB	No

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

- **DO NOT** allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or incineration in a licensed apparatus (after admixture with suitable combustible material).

Waste treatment options

Not Available

Sewage disposal options

Not Available

SECTION 14 Transport information

Labels Required

Marine Pollutant

NO

Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number or ID number: **Not Applicable**
14.2. UN proper shipping name: **Not Applicable**
14.3. Transport hazard class(es):
Class: **Not Applicable**
Subsidiary risk: **Not Applicable**
14.4. Packing group: **Not Applicable**
14.5. Environmental hazard: **Not Applicable**
14.6. Special precautions for user:
Hazard identification (Kemler): **Not Applicable**
Classification code: **Not Applicable**
Hazard Label: **Not Applicable**
Special provisions: **Not Applicable**
Limited quantity: **Not Applicable**
Tunnel Restriction Code: **Not Applicable**

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number: **Not Applicable**
14.2. UN proper shipping name: **Not Applicable**
14.3. Transport hazard class(es):
ICAO/IATA Class: **Not Applicable**
ICAO / IATA Subrisk: **Not Applicable**
ERG Code: **Not Applicable**
14.4. Packing group: **Not Applicable**

14.5. Environmental hazard: **Not Applicable**
14.6. Special precautions for user:
Special provisions: **Not Applicable**
Cargo Only Packing Instructions: **Not Applicable**
Cargo Only Maximum Qty / Pack: **Not Applicable**
Passenger and Cargo Packing Instructions: **Not Applicable**
Passenger and Cargo Maximum Qty / Pack: **Not Applicable**
Passenger and Cargo Limited Quantity Packing Instructions: **Not Applicable**
Passenger and Cargo Limited Maximum Qty / Pack: **Not Applicable**

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number: **Not Applicable**
14.2. UN proper shipping name: **Not Applicable**
14.3. Transport hazard class(es):
IMDG Class: **Not Applicable**
IMDG Subrisk: **Not Applicable**
14.4. Packing group: **Not Applicable**
14.5. Environmental hazard: **Not Applicable**
14.6. Special precautions for user:
EMS Number: **Not Applicable**
Special provisions: **Not Applicable**
Limited Quantities: **Not Applicable**

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number: **Not Applicable**
14.2. UN proper shipping name: **Not Applicable**
14.3. Transport hazard class(es):
Not Applicable: **Not Applicable**
14.4. Packing group: **Not Applicable**
14.5. Environmental hazard: **Not Applicable**
14.6. Special precautions for user:
Classification code: **Not Applicable**
Special provisions: **Not Applicable**
Limited quantity: **Not Applicable**
Equipment required: **Not Applicable**
Fire cones number: **Not Applicable**

SECTION 15 Regulatory information

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

PEG-12 DIMETHICONE CROSSPOLYMER is found on the following regulatory lists

– Not Applicable

Allyloxypolyethyleneglycol is found on the following regulatory lists

– Not Applicable

Information according to 2012/18/EU (Seveso III):

Seveso Category: Not Available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

15.3. Classification of Substances and Mixtures into Water Hazard Classes

Preparation is WGK 1

Name	WGK	Score	Source
Polyalkyleneoxide Modified Heptamethyltrisiloxane	1	4	Calculated
Allyloxypolyethyleneglycol	non-hazardous to waters	0	Calculated

SECTION 16 Other information

Revision Date: 25/05/2023
Initial Date: 24/05/2023

Full text Risk and Hazard codes

H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.

Other information

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit。
IDLH: Immediately Dangerous to Life or Health Concentrations
ES: Exposure Standard
OSF: Odour Safety Factor
NOAEL :No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: BioConcentration Factors
BEI: Biological Exposure Index
AIIC: Australian Inventory of Industrial Chemicals
DSL: Domestic Substances List
NDSL: Non-Domestic Substances List
IECSC: Inventory of Existing Chemical Substance in China
EINECS: European INventory of Existing Commercial chemical Substances
ELINCS: European List of Notified Chemical Substances
NLP: No-Longer Polymers
ENCS: Existing and New Chemical Substances Inventory