

Product Name Silaplane FM-7711
Revision date 28-Oct-2021
Version 2

(M)SDS Number PPN-EM-00036NRCC

1. Identification

Product identifier

Product Name Silaplane FM-7711

Chemical name Siloxanes and silicones, dimethyl, 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated

English chemical name Siloxanes and silicones, dimethyl, 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated

Other means of identification

(M)SDS Number PPN-EM-00036NRCC

Safety data sheet number CPS-E-2035M

Details of the supplier of the safety data sheet

Manufacturer

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Recommended use of the chemical and restrictions on use

Recommended Use Resin modifier

Restrictions on use No information available

Uses advised against Please do not use for medical applications.

2. Hazard(s) identification

Emergency Overview

No significant adverse health effects

Appearance No information available

Physical state Liquid

Odor Odorless

Classification of the substance or mixture

Reproductive toxicity	Category 2
Specific target organ toxicity - Single exposure	Category 1
Specific target organ toxicity - Repeated exposure	Category 2
Hazardous to the Aquatic Environment - Acute Hazard	Category 2
Hazardous to the Aquatic Environment - Chronic Hazard	Category 3

Label elements

None



Signal word

Danger

hazard statements

Suspected of damaging fertility or the unborn child
Causes damage to organs
May cause damage to organs through prolonged or repeated exposure
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
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid release to the environment

Response

IF exposed or concerned: Call a POISON CENTER or doctor
Specific treatment (see .? on this label)

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: Not applicable.

Chronic effects: Contains a known or suspected reproductive toxin. Target organ(s).

Environmental hazards

This material is a water pollutant. Keep out of drains, sewers, ditches and waterways. Minimize use of water to prevent environmental contamination

Other hazards which do not result in classification

Not applicable

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	Weight-%	CAS RN®	IECSC
Siloxanes and silicones, dimethyl, 3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl group-terminated (Mw ca1000)	>98.4	804475-35-2	○
2,6-Ditert-butyl-4-methyl phenol	<1.6	128-37-0	○
Toluene	<0.05	108-88-3	○

4. First-aid measures

Description of necessary first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms/effects, acute and delayed No information available.

For emergency responders See section 8 for more information.

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable Extinguishing Media Dry chemical or CO2. Foam.

Unsuitable extinguishing media Do not use straight streams. Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Hazardous combustion products Silicon dioxide.

Special protective actions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Other Information

Refer to protective measures listed in Sections 7 and 8.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. See Section 8 for information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials

Acids. Bases. Incompatible with strong acids and bases.

8. Exposure controls/personal protection

Occupational exposure limits

Chemical name	China	ACGIH TLV
2,6-Ditert-butyl-4-methyl phenol - 128-37-0	-	TWA: 2 mg/m ³ inhalable fraction and vapor
Toluene - 108-88-3	TWA: 50 mg/m ³ STEL: 100 mg/m ³ Skin*	Ototoxicant - potential to cause hearing disorders TWA: 20 ppm

Note

See section 16 for terms and abbreviations

Biological occupational exposure limits

Chemical name	Biological standards	Monitoring and observation processes	ACGIH
Toluene - 108-88-3	1 mol/mol Creatinine 1.5 g/g Creatinine 11 mmol/L 2.0 g/L 20 mg/m ³ 5 mg/m ³		0.02 mg/L - blood (Toluene) - prior to last shift of workweek 0.03 mg/L - urine (Toluene) - end of shift 0.3 mg/g creatinine - urine (o-Cresol with hydrolysis) - end of shift

Monitoring and observation processes

No applicable information was found.

Engineering controls

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Goggles. Wear safety glasses with side shields (or goggles).
Skin and body protection	Long sleeved clothing. Lightweight protective clothing. Apron. Wear suitable protective clothing.
Hand protection	Rubber gloves. Wear suitable protective gloves.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Color	Transparent pale yellow colorless
Physical state	Liquid
Odor	Odorless
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	no data available	
Melting point / freezing point	no data available	
Initial boiling point and boiling range	no data available	
Flash point	203 °C	Cleveland Open Cup
Evaporation rate	no data available	
Flammability	no data available	
Flammability Limit in Air		
Upper flammability or explosive limits	no data available	
Lower flammability or explosive limits	no data available	
vapor pressure	no data available	
Relative vapor density	>1 (Air=1)	

Relative density	0.98(25°C)	
Water solubility	Insoluble in water	
Solubility(ies)	no data available	
Partition coefficient	no data available	
Autoignition temperature	no data available	
Decomposition temperature	no data available	
Kinematic viscosity	no data available	
Dynamic viscosity	15mm2/S	@ 25 °C

Additional information

Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and reactivity

Stability Stable under normal conditions.

Possibility of hazardous reactions It is stable under general handling and storage conditions (40 ° C or less, under atmospheric pressure).

Sensitivity to Mechanical Impact no data available.

Sensitivity to Static Discharge no data available.

Hazardous polymerization Polymerization can occur.

Conditions to avoid Decomposes slowly on exposure to water. Heat, flames and sparks. static discharge (electrostatic discharge). Incompatible materials.

Incompatible materials Acids. Bases. Incompatible with strong acids and bases.

Hazardous decomposition products Silicon dioxide, nitrogen oxides and the like may be generated by combustion or thermal decomposition.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,6-Ditert-butyl-4-methyl phenol	> 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	China	IARC
2,6-Ditert-butyl-4-methyl phenol	-	Group 3
Toluene	-	Group 3

Legend

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity

Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure)

Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE), Causes damage to organs.

Specific target organ toxicity (repeated exposure)

May cause damage to organs.

Target organ effects

Eyes. Skin.

Aspiration hazard

No information available.

12. Ecological information

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Crustacea
2,6-Ditert-butyl-4-methyl phenol	EC50: =6mg/L (72h, Pseudokirchneriella subcapitata) EC50: >0.42mg/L (72h, Desmodesmus subspicatus)	-	-
Toluene	EC50: =12.5mg/L (72h, Pseudokirchneriella subcapitata) EC50: >433mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 11.0 - 15.0mg/L (96h, Lepomis macrochirus) LC50: 14.1 - 17.16mg/L (96h, Oncorhynchus mykiss) LC50: 15.22 - 19.05mg/L (96h, Pimephales promelas) LC50: 5.89 - 7.81mg/L (96h, Oncorhynchus mykiss) LC50: 50.87 - 70.34mg/L (96h, Poecilia reticulata) LC50: =12.6mg/L (96h, Pimephales promelas) LC50: =28.2mg/L (96h, Poecilia reticulata) LC50: =5.8mg/L (96h, Oncorhynchus mykiss) LC50: =54mg/L (96h, Oryzias latipes)	EC50: 5.46 - 9.83mg/L (48h, Daphnia magna) EC50: =11.5mg/L (48h, Daphnia magna)

Persistence and degradability

No information available.

Bioaccumulative potential There is no data for this product.

Component Information

Chemical name	Partition coefficient
2,6-Ditert-butyl-4-methyl phenol	4.17
Toluene	2.7

Mobility in soil No information available.

13. Disposal considerations

Waste chemicals Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Empty remaining contents. Dispose of contents/containers in accordance with local regulations.

14. Transport information

IMDG Not regulated
Marine pollutant Not applicable

IATA Not regulated
Marine pollutant Not applicable

Special precautions for user

Carry protective gear and fire extinguishers. Check the container for leaks prior to shipping loading; ensure a smooth, safe load to prevent the container from slipping, falling, and damaging. Appropriate measures should be taken during transportation to prevent damage to the container. Prevent exposure, rain, and high temperatures. It must not be mixed with acids and bases, and there should be no residue of the incompatible materials in the container. Although not classified as dangerous goods, it is best to comply with ICAO, IMDG, RID, ADR, and ADN regulations.

15. Regulatory information

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

National Regulations

The following laws, regulations and standards in China have made corresponding provisions on the safe use, storage, transportation, handling, classification and marking of chemicals:

Series of standards for chemical classification and labeling (GB 30000.2-2013 to GB30000.29-2013).
Regulations on the Safety Management of Hazardous Chemicals (Order No. 591 of the State Council).

Inventory of hazardous chemicals	Not included
List of Dangerous Goods	Not included
IECSC	Included
Inventory of highly toxic goods	Not included
Hazardous chemicals liable to produce explosives	Not included
Classification and Category Inventory of Precursor Chemicals	Not included
List of hazardous chemicals under priority management	Not included
Law of the People's Republic of China	Not applicable

on Prevention and Control of
Occupational Diseases

16. Other information

Prepared By JNC Corporation

Revision date 28-Oct-2021

Revision Note 2

Abbreviations and acronyms

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Disclaimer

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End of Safety Data Sheet