

Product Name Silaplane FM-4421
Revision date 25-Jan-2022
Version 1

(M)SDS Number PPN-EM-00031JP

1. Identification

Product identifier

Product Name Silaplane FM-4421
Chemical name Siloxanes and Silicones, di-Me, 3-(2-hydroxyethoxy)propyl group-terminated
English chemical name Poly[oxy(dimethylsilylene)], α -[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]- ω -[[[3-(2-hydroxyethoxy)propyl]dimethylsilyl]oxy]

Other means of identification

(M)SDS Number PPN-EM-00031JP
Safety data sheet number CPS-E-2029M

Details of the supplier of the safety data sheet

Manufacturer

JNC CORPORATION,
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Importer

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Emergency telephone number

Emergency Telephone +81-3-3243-6190
Emergency telephone number 0532-83889090

Recommended use of the chemical and restrictions on use

Recommended Use Resin modifier

Restrictions on use 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

Not classified

Acute toxicity - Oral

Not classified

hazard statements

Not classified

Precautionary statements

Response

Call a POISON CENTER or doctor/physician if you feel unwell

Physical and chemical hazards

Not applicable.

Health hazards

Immediate Health Effects: If large quantities of this material are swallowed, call a physician immediately. If symptoms persist, call a physician.

Chronic effects: Not applicable.

Environmental hazards

Not applicable

Other hazards which do not result in classification

Not applicable

3. Composition/information on Ingredients

Substance

Not classified.

Chemical name	Weight-%	CAS RN®	IECSC	The Environmental Administration Registration of New Chemical Substances
Siloxanes and Silicones, di-Me, 3-(2-hydroxyethoxy)propyl group-terminated	100	222416-17-3	○	

4. First-aid measures

Description of necessary first aid measures

Inhalation

Remove to fresh air. IF exposed or concerned: Get medical advice/attention.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Seek immediate medical attention/advice.

Ingestion

Rinse mouth thoroughly with water. Get medical attention.

**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.

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 Handle in accordance with good industrial hygiene and safety practice. 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. Alkali.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note See section 16 for terms and abbreviations

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

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	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	
Color	light yellow clear
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	338 °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	no data available	
Relative density	0.97	@ 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 80mm²/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.

Conditions to avoid Heat, flames and sparks. static discharge (electrostatic discharge).

Incompatible materials Acids. Alkali.

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

Oral LD50 > 5000 mg/kg (rat)

Skin corrosion/irritation No information available.

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Specific target organ toxicity (single exposure) No information available.

Specific target organ toxicity (repeated exposure) No information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>	The environmental impact of this product has not been fully investigated.
<u>Persistence and degradability</u>	No information available.
<u>Bioaccumulative potential</u>	No information available.
<u>Mobility in soil</u>	No information available.

13. DISPOSAL CONSIDERATIONS

<u>Waste chemicals</u>	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<u>Contaminated packaging</u>	Empty remaining contents. Dispose of contents/containers in accordance with local regulations.

14. TRANSPORT INFORMATION

<u>IMDG</u>	Not regulated
Marine pollutant	Not applicable
<u>IATA</u>	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	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

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List of hazardous chemicals under priority management Not included
Law of the People's Republic of China on Prevention and Control of Occupational Diseases Not applicable

16. Other Information

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Revision Note

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet