JNC CORPORATION

SAFETY DATA SHEET

Issuing Date 01-Nov-2014 Revision date 29-Sep-2022 Revision Number 2

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier

Product Name Silaplane FM-4411

Other means of identification

Product Code(s) PPN-EM-00030JP

Safety data sheet number CPS-E-2028M

Recommended use of the chemical and restrictions on use

Recommended Use Resin modifier

Uses advised against Please do not use for medical applications.

Details of the supplier of the safety data sheet

Manufacturer Address

JNC CORPORATION,

Shin Otemachi Bldg.,2-1,Otemachi 2-Chome,Chiyoda-ku,Tokyo 100-8105 Japan

TEL:+81-3-3243-6190 Fax:+81-3243-6069

E-mail silicon@jnc-corp.co.jp

Emergency telephone number

24 Hour Emergency Phone Number +1 202 464 2554

Emergency Telephone +81-3-3243-6190

2. Hazards Identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Νo

Label Elements

hazard statements

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance No information available Physical state Liquid Odor Odorless

OTHER INFORMATION

Nο

Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

| Chemical name | CAS No. | Weight-% | Trade secret |
|---------------------------------|-------------|----------|--------------|
| Siloxanes and Silicones, di-Me, | 222416-17-3 | 100 | * |
| 3-(2-hydroxyethoxy)propyl | | | |
| group-terminated | | | |

4. FIRST AID MEASURES

Description of first aid measures

Remove to fresh air. Inhalation

IF Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin Skin contact

with water/shower. Get medical attention immediately if symptoms occur.

Ingestion Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical

advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical or CO2. Foam.

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

streams.

Specific hazards arising from the

chemical

No information available.

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Hazardous combustion products Silicon dioxide. Nitrogen oxides (NOx).

Explosion data

Sensitivity to Mechanical Impact no data available.

Sensitivity to Static Discharge None.

Special protective equipment 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. Avoid contact with skin, eyes or clothing. Use personal

protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Do not eat, drink or smoke when using this product. Ensure adequate ventilation. Handle in

accordance with good industrial hygiene and safety practice. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary

measures against static discharges. Use personal protection equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

electricity). Keep cool. Protect from sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

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Appropriate engineering controls

Engineering controls Showers

> Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Wear safety glasses with side shields (or goggles).

Hand protection Protective gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Apron. Long sleeved clothing. Protective shoes or boots.

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 No information available

Physical state Liquid

Color light yellow clear

Odor Odorless

Odor threshold No information available

Values Remarks • Method **Property**

No data available pН Melting point / freezing point No data available

Initial boiling point and boiling No data available

range

Flash point 262 °C / 504 °F Cleveland Open Cup

Evaporation rate No data available **Flammability** No data available

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressure No data available Relative vapor density No data available

Relative density 0.97 @ 25 °C

Water solubility Insoluble in water Solubility in other solvents no data available Partition coefficient No data available **Autoignition temperature** No data available Hyphen No data available

Kinematic viscosity No data available

Dynamic viscosity 80mm² /S @ 25 °C

Explosive properties No information available No information available Oxidizing properties

Other information

Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Liquid Density** No information available No information available **Bulk density**

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10. STABILITY AND REACTIVITY

Reactivity No information available.

Chemical 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).

Conditions to avoid Heat, flames and sparks. Humidity, 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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

IF Eye contact : Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Oral LD50 > 5000.1 mg/kg (rat)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritationNo information available.

| oduct Information | | | | | | |
|-------------------|---------|----------------|----------------|---------------|---------|--|
| Method | Species | Exposure route | Effective dose | Exposure time | Results | |
| | Rabbit | Dermal | | | | |

Serious eye damage/eye irritation No information available.

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Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated. **Ecotoxicity**

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused

products

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

TDG Not regulated

MEX Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

Marine pollutant Nο

RID Not regulated

ADR Not regulated

ADN Not regulated

Special precautions Secure the container when transporting it. Packing appropriate cushioning material

between containers to prevent containers in transport from hitting or breaking each other.

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15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply **DSL/NDSL** Complies **EINECS/ELINCS** Does not comply **ENCS** Does not comply Included **IECSC KECL** Complies **PICCS** Does not comply AIIC Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications

Revision date 29-Sep-2022

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State RegulationsThis product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number No

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPAHealth hazards0Flammability1Instability0Special hazards-HMISHealth hazards0Flammability1Physical hazards0Personal protectionX

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Revision Note No information available.

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

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