**Safety Data Sheet**

**Material: 60006506** SUNHA® SUPER 98P

Version: 2.4 (AU) Date of print: 24.05.2018 Date of last alteration: 05.03.2018

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

1. **Product identifier**

**Commercial product name:** SUNHA® SUPER 98P

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

Use of substance / preparation:

Industrial.

Modifying agent for: Building materials

1. **Details of the supplier of the safety data sheet**

Manufacturer:

Street/POB-No.:

State/postal code/city:

Telephone:

Telefax:

Distributor:

Street/POB-No.:

State/postal code/city:

Telephone:

Telefax:

Information about the Safety Data Sheet:

Wacker Chemie AG Hanns-Seidel-Platz 4 D 81737 Munchen +49 89 6279-0 +49 89 6279-1770

Wacker Chemie AG

Care of Wacker Chemicals Australia Pty Ltd

Unit 1 / 35 Dunlop Road

Mulgrave, Victoria 3170

+61 3 9541 8900

+61 3 9541 8989

Telephone

Telefax

eMail

+49 8677 83-4888

+49 8677 886-9722

[WLCP-MSDS@wacker.com](mailto:WLCP-MSDS@wacker.com)

**1.4 Emergency telephone number**

**Emergency Information:**

**Emergency response service only (24h): Emergency response service only (24h):**

**Regulatory Compliance Manager Ixom ERS - Australia Ixom ERS - New Zealand**

**+61 3 9541 8900 1800 033 111 0800 734 607**

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Hazardous Chemical according to Australian GHS criteria. Non-Dangerous Goods to the ADG Code.

|  |  |  |
| --- | --- | --- |
| Class | Category | Route of exposure |
| Flammable liquids | Category 3 |  |

2.2 Label elements

Pictogram(s):



Signal Word: Warning

|  |  |
| --- | --- |
| H-Code | Hazard Statements |
| H226 | Flammable liquid and vapour. |
| P-Code | Precautionary Statements |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P370+P378 | In case of fire: Use extinguishing powder, alcohol-resistant foam or carbon dioxide to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P501 | Dispose of contents/container to waste disposal. |

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1. Other hazards

Inhalation of aerosol spray may damage health.

The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

**SECTION 3: Composition/information on ingredients**

* 1. Substances

not applicable

* 1. Mixtures
     1. Chemical characteristics

alkylsilicone resin with alkoxy groups + filler + auxiliary

* + 1. Ingredients

|  |  |  |  |
| --- | --- | --- | --- |
| EC-No. | CAS No. | Material | Content % |
| 222-883-3 | 3648-18-8 | Di-n-octyltindodecylate | <2 |
| 200-659-6 | 67-56-1 | Methanol | >0.1 - <0.3 |

**SECTION 4: First aid measures**

1. Description of first aid measures General information:

Take persons to a safe place. Observe self-protection for first aid.

After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes. Seek medical advice in case of continuous irritation.

After contact with the skin:

Remove contaminated or soaked clothing. Immediately rinse with plenty of soap and water. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. In cases of sickness seek medical advice (show label or SDS if possible).

After swallowing:

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.

1. Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

1. Advice for the doctor:

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure. Further toxicology information in section 11 must be observed.

**SECTION 5: Firefighting measures**

1. Extinguishing media

Suitable extinguishing media:

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

Extinguishing media which must not be used for safety reasons:

water jet .

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1. Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides , silicon oxides , incompletely burnt hydrocarbons , toxic and very toxic fumes .

1. Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

**SECTION 6: Accidental release measures**

1. Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

1. Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

1. Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

1. Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

**SECTION 7: Handling and storage**

1. Precautions for safe handling Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

1. Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

1. Specific end use(s)

No data available.

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1. Regulations and standards (Australia):

Store and handle in accordance with Work Health & Safety Regulations or Occupational Health & Safety Regulations.Classified as a GHS Flammable Liquid which should be stored and handled in accordance with AS 1940 Storage & Handling of Flammable & Combustible Liquids.

**SECTION 8: Exposure controls/personal protection**

1. Control parameters

**Maximum airborne concentrations at the workplace:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CAS No. | Material | Type | mg/m3 | ppm | Dust fract. | Fibre/m3 |
| 67-56-1 | Methanol | ES AU | 262.0 | 200.0 |  |  |
|  | Aerosol - inhalable fraction |  | 10.0 |  |  |  |
|  | Tin compounds (organic) | ES AU | 0.1 |  |  |  |

The aerosol limit specified is a recommendation should aerosol be formed during processing.

Tin compounds (organic): short time exposure limit is 0.2 mg/m3. Reference: American Conference of Governmental Industrial Hygienists (ACGIH), Documentation of Threshold Limit Values and Biological Exposure Indices, 6th Edition, ACGIH, Cincinatti, Ohio, 1991

1. Exposure controls
2. Exposure in the work place limited and controlled General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Avoid contact with eyes and skin. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling. Keep away from foodstuff, drink and feedingstuff.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

tight fitting protective goggles .

Hand protection

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of butyl rubber thickness of the material: > 0.5 mm Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber thickness of the material: > 0.4 mm Breakthrough time: 10 - 30 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

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Skin protection

If handled uncovered: Chemical protective clothing, full-body liquid-tight protection if necessary. Please observe the instructions regarding permeability time which are provided by the supplier.

1. Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

1. Specific notes (Australia):

Select and use respirators in accordance with AS1715/1716.

1. Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Property: Value:**

**Appearance**

Physical state / form : liquid

Colour : opaque

Colour : colourless

**Odour**

Odour : faint

**Odour limit**

Odour limit : no data available

**pH-Value**

pH-Value : not applicable

**Melting point/freezing point**

Melting point / melting range : not determined

**Initial boiling point and boiling range**

Boiling point / boiling range : > 190 °C at 1013 hPa

**Flash point**

Flash point : 42 °C

Sustained combustibility : > 110 °C

**Evaporation rate**

Evaporation rate : no data available

**Upper/lower flammability or explosive limits**

Lower explosion limit (LEL) : not determined

Upper explosion limit (UEL) : not determined

**Vapour pressure**

Vapour pressure : < 50 hPa / 20 °C

Vapour pressure : < 120 hPa / 50 °C

**Solubility(ies)**

Water solubility / miscibility : not applicable

**Vapour density**

Relative gas/vapour density : No data known.

**Relative Density**

Relative Density : 1.05 (25 °C)

(Water / 4 °C = 1,00)

Density : 1.05 g/cm3 (25 °C)

**Partition coefficient: n-octanol/water**

Partition coefficient: n-octanol/water : No data known.

**Auto-ignition temperature**

Ignition temperature : > 280 °C

**Viscosity**

Viscosity (dynamic) : 15 - 19 mPa.s

**Molecular mass**

Molecular mass : not applicable

**Method:**

(ISO 3679) (iso 9038)

(DIN 51757) (DIN 51757)

(DIN 51794) (DIN 51562)

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1. Other information

Solubility in water: Hydrolytic decomposition occurs. Explosion limits for released methanol: 5.5 - 44%(V). pH Value: Product displays neutral reaction.

**SECTION 10: Stability and reactivity**

1. - 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

1. Conditions to avoid

moisture , Heat, open flames, and other sources of ignition.

1. Incompatible materials

Reacts with: water , basic substances and acids . Reaction causes the formation of: methanol .

1. Hazardous decomposition products

By hydrolysis: methanol . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

**SECTION 11: Toxicological information**

1. Information on toxicological effects
2. Acute toxicity Assessment:

For similar products no indications for a specific hazard due to aerosol inhalation were identified in animal tests. However, inhalation of respirable aerosol should be avoided.

Product details:

|  |  |  |  |
| --- | --- | --- | --- |
| Route of exposure | Result/Effect | Species/Test system | Source |
| by inhalation (spray) | LC50: > 240 ml/h; 4 h  No mortality at room temperature in highly enriched or saturated atmosphere. | rat | Conclusion by analogy |

Acute toxicity estimate (ATE):

I ATEmix (oral)' > 2000 mg/kg

1. Skin corrosion/irritation Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Serious eye damage / eye irritation Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Respiratory or skin sensitization Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Germ cell mutagenicity Assessment:

For this endpoint no toxicological test data is available for the whole product.

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1. Carcinogenicity Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Reproductive toxicity Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Specific target organ toxicity (repeated exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Aspiration hazard Assessment:

For this endpoint no toxicological test data is available for the whole product.

1. Further toxicological information

Hydrolysis product / impurity: Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

**SECTION 12: Ecological information** 1

1. Toxicity Assessment:

For the product as a whole, no test data is available.

1. Persistence and degradability Assessment:

Contact with water liberates methanol and silanol- and/or siloxanol-compounds. Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. The product of hydrolysis (methanol) is readily biodegradable.

1. Bioaccumulative potential Assessment:

Bioaccumulation is not expected to occur.

1. Mobility in soil Assessment:

Silicone content: Absorbed by floating particles. Separation by sedimentation.

1. Other adverse effects

none known

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**SECTION 13: Disposal considerations**

1. Waste treatment methods
2. Material

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

1. Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

**SECTION 14: Transport information**

1. - 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group Land transport ADG Code (road and rail)::

Valuation : Not regulated for transport

Further information : Not regulated in Class 3 - ADG 2.3.1.3 - Substance does not sustain combustion

Transport by sea IMDG-Code:

Valuation : Not regulated for transport

Air transport ICAO-TI/IATA-DGR:

I Valuation : Not regulated for transport

1. Environmental hazards

Hazardous to the environment: no

1. Special precautions for user

Road transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Rail transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Ship transport: Not regulated in Class 3 - IMDG 2.3.1.3 - as the substance does not sustain combustion!

Air transport: Not regulated in Class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - Substance does not sustain combustion!

Due to safety reasons no air transport in totes (IBC) or vented packaging!

Relevant information in other sections has to be considered.

1. Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

**SECTION 15: Regulatory information**

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

1. Poisons Standard (Standard for the Uniform Scheduling of Medicines and Poisons; SUSMP)

Poisons Schedule number:

Not a Scheduled Poison.

Label elements:

1. Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

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ECL (Existing Chemicals List):

South Korea (Republic of Korea)

Australia

People's Republic of China

Canada

Philippines

United States of America (USA) .. Taiwan (Republic of China)

This product is listed in, or complies with, the substance inventory.

AICS (Australian Inventory of Chemical Substances):

This product is listed in, or complies with, the substance inventory.

IECSC (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

DSL (Domestic Substance List):

This product is listed in, or complies with, the substance inventory.

PICCS (Philippine Inventory of Chemicals and Chemical Substances):

This product is listed in, or complies with, the substance inventory.

TSCA (Toxic Substance Control Act Chemical Substance Inventory):

This product is listed in, or complies with, the substance inventory.

TCSI (Taiwan Chemical Substance Inventory):

This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA) : REACH (Regulation (EC) No 1907/2006):

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

**SECTION 16: Other information**

1. Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at [www.wacker.com](http://www.wacker.com).

1. Further information:

Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

1. Glossary of Terms:

CAS No. - Chemical Abstracts Service Registry Number UN No. - United Nations Dangerous Goods Number

ADG Code - Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road & Rail IMDG Code - International Maritime Dangerous Goods Code

IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations

NOHSC - Australian National Occupational Health and Safety Commission (Note: NOHSC documents are now published by Safe Work Australia)

OEL - Occupational exposure limit in Great Britain AGW - Occupational exposure limit in Germany ES\_AU - Occupational exposure standard in Australia

- End of Safety Data Sheet -