



W40 IMPREGNATOR

MATERIAL SAFETY DATA SHEET

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Substance/preparation and company identification

Company: Warrior Pte Ltd

Contact address:

17 Marsiling Industrial Estate Road 1 #01-11

Singapore 739279

Telephone: +65 6364 5100

E-mail address: war99@singnet.com.sg

Composition/information on ingredients

Chemical characterization (preparation):

- Potassium methylsiliconate in aqueous solution.

EINECS / ELINCS No.	CAS No.	MATERIAL	CONTENT %		WARNING LABEL (EU)	
			From	Until	Symbol	R-Phrases
250-807-9	31795-24-1	Potassium methylsiliconate	>50,0		C	35
215-181-3	1310-58-3	Potassium hydroxide		<5,0	C	22-35

Hazard identification

R-Phrase	Description
R35	Cause severe burns
R22 R35	Harmful if swallowed. Causes severe burns.

First-aid measures

General information:

- In case of accident or if you feel unwell, seek medical advice immediately (show label if possible).

If inhaled:

- Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

- Wash immediately with plenty of water. Remove contaminated clothes at once. In serious cases, use emergency shower immediately. Seek medical advice and clearly identify substance.



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On contact with eyes:

- Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist. Continue to bathe eyes during transport to medical practitioner.

On ingestion:

- Rinse mouth immediately and then drink plenty of water in small portions. Do not induce vomiting. Seek medical attention and clearly identify substance.

Advice for the physician:

- Allow cortisone spray inhalation at first possible opportunity.

First-fighting measures

General Information:

- Product does not burn. Use extinguishing measures appropriate to the source of the fire.

Suitable Extinguishing Media:

- Not Applicable.

Extinguishing media which must not be used for safety reasons:

- Not Applicable.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

- Not Applicable.

Special protective equipment for fire fighting:

- Use respiratory protection independent of recirculated air.

Accidental release measures

Personal precautions:

- Wear personal protection equipment (see exposure controls and personal protection equipment section).
- Avoid contact with eyes and skin.
- Avoid inhaling mists and vapours.
- Keep unprotected persons away.

Environmental precautions:

- Prevent material from entering surface waters, drains or sewers and open soil. Contain any fluid that spills using suitable material (e.g. earth).

Methods for cleaning up:

- Take up mechanically and dispose of according to local/state/federal regulations.
- For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/regional/national/international regulations. Dilute with plenty of water and dispose according to local/regional/national/international regulations.
- Contain larger amounts and pump into suitable containers.



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Handling and Storage

Handling

- Avoid contact with acids. Avoid formation of aerosols. In case of aerosol formation, special protective measures are required (exhausting by suction, respiratory protection).
- No special precautions against fire and explosion required.

Storage

Conditions for storage rooms and vessels:

- Do not store in containers made of aluminum or other light metals.

Advice for storage of incompatible materials:

- Avoid contact with acids.

Further information for storage:

- Keep container tightly closed.

Exposure controls and personal protection equipment

Exposure limits

Maximum airborne concentrations at the workplace:

- Not applicable

Exposure limited and controlled:

- Exposure in work place limited and controlled.

General protection and hygiene measures:

- Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat or drink when handling.

Personal protection equipment

Respiratory protection:

- In case of long or strong exposure, use gas mask filter ABEK.

Hand protection:

- Wear PVC gloves or rubber gloves. At any sign of decay or chemical permeability, remove gloves immediately and replace.

Eye protection:

- Wear tight fitting protective goggles. Provide work station with eye bathing equipment. Do not wear contact lenses.

Eye protection:

- Wear protective clothing and protective goggles/face protection. Where there is risk of splashing, observe complete head, face and neck protection.



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Exposure to the environment limited and controlled:

- Prevent material from introduction into surface water and into soil.

Further information for system design and engineering measures:

- Observe information in Handling and Storage section.

Physical and chemical properties

General information:

- Physical state/ form: liquid
- Colour: colourless - yellowish
- Odour: slight

Important information about the protection of health, safety and the environment:

- Melting point/ melting range: approx. - 85°C
- Boiling Point/ boiling range: 100°C at 1013 hPa
- Flashpoint: Not applicable
- Autoignition temperature: 570°C
- Lower explosion limit (LEL): Not applicable
- Upper explosion limit (UEL): Not applicable
- Density: 1.4g/cm³ at 25°C at 1013 hPa
- Water solubility/ miscibility: completely miscible at 20°C
- pH value: 13 - 14 at 20°C
- Viscosity (dynamic): 10 - 25 mPa*s at at 25°C

Stability and reactivity

General information:

- If stored in accordance with standard industrial practices, no hazardous reactions are known.

Conditions to avoid:

- None known.

Materials to avoid:

- Reacts with acids. Reaction causes the formation of heat.

Hazardous decomposition products:

- If stored and handled in accordance with standard industrial practices and local regulations where applicable - none known.

Toxicological information

General information:

- Note indications of danger and safety advice (R - and S-phrase) in regulatory information section. The toxicology results listed below are based on tests with a similar material.



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Toxicological tests:

Acute toxicity (LD50/LC50 - values relevant to classification):

Exposition	Value/value range	Species	Source
oral	> 2000 mg/kg	Rat (Limit Test)	Conclusion by analogy

Reference points for mutagenic (carcinogen) potential:

Test system	Effect	Source
Bacterial reverse mutation test	Not mutagenic	Conclusion by analogy

Further toxicological information:

- Classification based on ingredients - Cause severe burns.

Ecological information

Ecotoxicity:

Species	Test Method	Exp. Time	Result	Source
Daphnia Magna	acute	48 h	> 100 mg/l (EC50)	Conclusion by analogy
Daphnia Magna	acute	48 h	> 100 mg/l (EC50)	Conclusion by analogy

No expected damaging effects to water organisms. Harmful effect through pH-shift possible.

Effects in sewage treatment plants (bacteria toxicity: respiration -/ reproduction inhibition):

- Normally, neutralisation is required before waste water is introduced into purification plants. Do not introduce large amounts into purification plants.

Mobility:

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Persistence and degradability

Biodegradation/ further information:

- Biologically not degradable.

Further information:

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Bio-accumulation potential

Further information:

- Bio accumulation is not expected to occur.



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Other harmful effects

- None known.

Further ecological information

General information:

- Evaluation in analogy to similar tested product. Prevent material from introduction into surface water into soil.

Disposal considerations

Material

Recommendation:

- Dispose according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of in a domestic waste incinerator. Observe local/state/federal regulations. Incineration or deposit after solidification together with domestic waste is possible. Observe local/state/federal regulations.

Uncleaned packaging

Recommendation:

- Completely discharge containers (no tear drops, no powder rest, scrapped carefully). Containers may be recycled or re-used.

Transport information

Land transport GGVSE/ADR and RID

Road ADR:

- Valuation: Hazardous product
- Class: 8
- Packaging Group: II
- Hazard No.: 80
- UN No.: 1814
- Proper Shipping Name: Kaliumhydroxidlosung

Railway RID:

- Valuation: Hazardous product
- Class: 8
- Packaging Group: II
- UN No.: 1814

Inland navigation GGVBinsch/ADNR

Transport by sea GGVSee/IMDG-Code

- Valuation: Hazardous product
- Class: 8
- Packaging Group: II



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- UN No.: 1814
- Proper Shipping Name: Potassium hydroxide solution
- EmS No.: 8 - 06
- Marine Pollutant: no

Air transport ICAO-TI/ IATA-DGR

- Valuation: Hazardous product
- Class: 8
- Packaging Group: II
- UN No.: 1814
- Proper Shipping Name: Potassium hydroxide solution

Regulatory information

Warning Label (EU)

	C	Corrosive
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R-Phrase	Description
R35	Causes severe burns.

S-Phrase	Description
S23	Do not breathe spray.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S51	Use only in well-ventilated areas.

Hazard ingredients (labelling EU):

CAS No.	Material	Hazard symbols	Risk phrases (EU)
31795-24-1	Potassium methylsiliconate	C	35

Other information

- Any other intended applications should be discussed with the manufacturer.
- If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: war99@singnet.com.sg
- The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.