

ALSPEC

Hardware

MATERIAL SAFETY DATA SHEET

[Product Name] ALSPEC HARDWARE – General Purpose Silicone – Trans.

1. Company Identification

1.1 Manufactured by :

GE Toshiba Silicones Co.,Ltd.

1.2 Address :

2-31, Roppongi 6-chome, Minato-ku, Tokyo, Japan

1.3 Phone Number :

81-3-3479-5355

1.4 Emergency Phone Number :

81-276-31-1955 (Weekday Japanese Standard Time 8:00 - 17:00)

81-276-31-4118 (Except Above Mentioned Time)

1.5 Date Prepared :

98-12-15

1.6 Date Revised :

99-12-25

1.7 Prepared by :

Isao Endo

2. Composition/Information on Ingredients

Components	Chemical Name & Common Name	CONTENT	OSHA	ACGIH	OTHER LIMITS
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(Hazardous Components 1% or greater)		(wt.%)	PEL	TLV	RECOMENDED
(Carcinogens 0.1% or greater)					

Polyalkylsiloxane

Oxime silane

Silica (or Silicon dioxide)

Dialkyl tin compound

Adhesion promoting agent

Total 100%

3. Hazardous Identification

3.1 Name of Classification :

Not applied

3.2 Hazard :

Flammable

3.3 Harm

3.3.1 Eye Contact :

Causes eye irritation and pains.

3.3.2 Skin Contact :

May cause skin irritation.

3.3.3 Inhalation :

Cause mild respiratory tract irritation.

3.3.4 Ingestion :

Little harmful to health if swallowed.

3.3.5 Others :

This material contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

4.First Aid Measures

4.1 Eyes :

Immediately wash out with running water for at least 15 minutes. Seek medical treatment.

4.2 Skin :

Immediately wash out with soap and running water. Seek medical treatment, depending on the symptoms.

4.3 Inhalation :

Rest in fresh air and seek medical treatment, depending on the symptoms.

4.4 Ingestion :

Induce vomiting immediately. Get medical attention.

5.Fire Fighting Measures

5.1 Firefighting Procedures :

Remove sources of combustibles. Extinguish the fire using fire-fighting media listed below. Cool surrounding tanks, buildings and so on by spraying with water to prevent the fire extension. The fire fighting should be done from the windward side, with suitable respiratory protective device, if necessary.

5.2 Extinguishing Media :

foam, powder, carbon dioxide

6.Accidental Release Measures

Evacuate people on the leeward.

Keep people away from the area.

Remove sources of ignition.

Wear proper protective equipment when in work.

Work from the windward side.

Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large.

Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill is small.

7.Handling and Storage

7.1 Handling :

Wear eye, hand and respiratory protection when in handling.

Avoid any source of ignition due to flammability.

Ground equipment due expected sensitivity to static discharge.

This product release Methyl Ethyl Ketoxime during curing.

Use in a well ventilated area to avoid breathing vapor.

7.2 Storage :

Store in a dark, cool place indoors, with container tightly closed.

8.Exposure controls / Personal Protection

8.1 Administrative Exposure Limit :

Not applied

8.2 Occupational Exposure Limit by Japanese Ministry of Labor

8.2.1 Japanese Industrial Health Society(1996) :

Not applied

8.2.2 ACGIH TLV(1997) :

Not applied

8.3 Equipment Measure :

Well ventilated area
Eyewash stations

8.3.1 Inhalation Protection :

Gas mask for organic gas

8.3.2 Eye and Face Protection :

Safety glasses

8.3.3 Protective Gloves :

Rubber or plastics gloves

8.3.4 Protective Clothes :

Rubber boots and protection

9. Physical and Chemical Properties

9.1 Appearance :

Semi Translucent

9.2 Odor :

Unique smell

9.3 Boiling Point :

Not applied

9.4 Vapor Pressure :

Not applied

9.5 Volatility :

None

9.6 Melting Point :

Not applied

9.7 Specific Gravity (Water=1) :

1.04 (25°C)

9.8 First Boiling Point :

Not applied

9.9 Solubility in water :

Insoluble

9.10 Others :

No data

10. Dangerous Information

10.1 Flash Point :

63°C

10.2 Auto Ignition Temperature :

450 °C

10.3 Flammability Limits in Air % by Volume :

Not applied

10.4 Combustibility :

For 3 tons or more, the material is regarded as a flammable solid family which belongs to the Japanese Fire Service Act Low designated flammable substances.

10.5 Ignition Property :

Non-ignitable

10.6 Oxidization Property :

Non-oxidative

10.7 Self Reactivity and Explosibility :

Non-self-reactive and non-explosive

10.8 Dust Explosibility :

Non-dust-explosive

10.9 Stability and Reactivity :

The Substance is substantially stable. The catalysis of strong acids or bases causes polymerization or decomposition.

10.10 Others :

No data

11.Toxicological Information

11.1 Skin Destruction Property :

No data

11.2 Stimulus Property (Skin, Eye) :

No data

11.3 Sensitization Property :

No data

11.4 Acute Toxicity (LD50) :

No data

11.5 Sub-Acute Toxicity :

No data

11.6 Chronic Toxicity :

No data

11.7 Carcinogenicity :

No data

11.8 Mutation :

No data

11.9 Reproductive :

No data

11.10 Tertogenic :

No data

11.11 Others

Toxicity of Methyl Ethyl Ketoxim (MEKO) liberated when the material is in touch with water or moisture in the air, or the material is curing.

SKIN CONTACT : May cause mild skin irritation.

EYE CONTACT : Causes severe eye irritation may damage tissue.

ACUTE ORAL TOXICITY: rat LD50 4ml/kg

ACUTE INHALATION : rat LC50 †4.8mg/l/4H

INHALATION TOXICITY: Narcotic in high concentration. Return to normal when exposure ends. Prolonged overexposure causes adverse effects on the blood.

SKIN SENSIBILITY : positive (guinea pig) No allergic reaction to humans.

NERVE TOXICITY : Temporay declination in motor function at high concentrations.

CARCINOGENICITY : A lifetime (about two years) inhalation study in male and female mice and rats revealed that liver tumors were observed in male mice and rats at a high exposure level of 375 ppm.

OTHER LONG-TERM EXPOSURE TESTS

: Atrophy of smell epithelium cells was observed in mice and rats.

PERMISSIBLE CONCENTRATION: TWA 3 ppm (supplier fs recommended value), Keep

well ventilated (STEL 10 ppm or less). The WEEL recommended value of AIHA is TWA 10 ppm.

12.Ecological Information

12.1 Bio-Degradation :

No data

12.2 Bio-Accumulation :

No data

12.3 Fish Toxicity :

No data

12.4 Others :

No data

13. Disposal Consideration

Incineration should be made in approved chemical incinerator in accordance with regulations. Or bury after cured 15cm pieces are made.

14. Transport Information

14.1 Japanese Act :

Handle without any source of ignition. When the load is 3t or more, the substance belongs to the flammable solids of the Dangerous Articles.

14.2 External Act :

The substance is not regarded as a dangerous material for ship and air transportation.

15. Regulatory Information

For 3 tons or more, the material is regarded as a flammable solid family which belongs to the Japanese Fire Service Act Law designated flammable substances.

16. Other

16.1 Quotation Documents :

ACGIH TLV for Chemical Substances
Chemical safe administration data book (The Chemical Daily Co., Ltd.)

16.2 Precautions :

This material is developed and manufactured for building and construction applications only. For medical or other special applications, use after performing safety testing on the product and confirming safety. Never use for human applications such as implant, impregnation, and possible residue-remaining in the body.

16.3 Any Other Precaution :

Other (an address, and telephone and fax numbers for information, references) The information herein is made based on references, information and data available at present. It may be revised when new information is available. The descriptions herein are for normal handling. For special applications, make safety provisions suitable to them prior to use.

14. VOC

VOC - G/L = 43
VOC - wt% = 4.20



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