

# KLEBERMANN®

## Material Safety Data Sheet

### KLEBERMANN® GLASS & METAL NEUTRAL

#### 1. Chemical Product and Company Identification

##### 1.1 Product Details

**Product Name:** KLEBERMANN GM ® NEUTRAL  
**Other Name:** None  
**Chemical Family:** Silicone Sealant  
**Manufacturer's Product Code:** KMN-GMN  
**Use:** Sealant and adhesive

##### 1.2 Company Details

**Company:** PT Moderatama Markindo  
**Address:** Rukan Sentra Niaga  
Blok T 1 No 38 Puri Indah Jakarta 11610  
Indonesia  
**Telephone Number:** (21) 58301557-58  
**Emergency Telephone Number:** (21) 118  
**Contact Person:** Country Manager

#### 2. Composition and Information on Ingredients

Components Chemical Name & Common Name (Hazardous Components 1% or greater) (Carcinogens 0.1% or greater)	CONTENT (wt.%)	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
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Polyalkylsiloxane				
Oxime silane				
Silica (or Silicon dioxide)	10-20	10mg/m3	0.1mg/m3	(Quartz)
Dialkyl tin compound <1				
Adhesion promoting agent				
Pigment				
Total 100%				

#### 3. Hazard 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.

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- 3.3.3 Inhalation :** May causes throat inflammation,bronchitis,pneumonia,and pulmonary edema.
- 3.3.4 Ingestion :** Harmful
- 3.3.5 Others :** This material contains Methylpolysiloxanes which can generate Formaldehyde at approximately 300degrees 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 :** Get medical attention immediately. Do not induce vomiting as the substance contains volatile chemicals. Vomiting may increase risk.

#### 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 Measure

- 6.1 Environmental Precautions:** Do not allow large quantities to enter drains or surface waters.
- 6.2 Methods for Cleaning up**
- Evacuate people on the leeward.
  - Keep people away from the area.
  - Remove sources of ignition.
  - Wear proper protective equipment when in work.

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- 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.

#### 8. Exposure Control / Personal Protection

- 8.1 Administrative Exposure Limit :** Not applied
- 8.2 Occupational Exposure Limit :**
- 8.2.1 Japanese Society of Occupational Health ( 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
- 8.4 Engineering Controls**
- Local Ventilation:** None should be needed.
- General Ventilation:** Recommended.

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#### 8.5 Personal Protective Equipment for Routine Handling

<b>Respiratory protection:</b>	Respiratory protection should be needed.
<b>Suitable Respirator:</b>	3M chemical approve mask
<b>Eye:</b>	Use chemical worker's goggles.
<b>Hand:</b>	Chemical protective gloves should be worn.
<b>Skin:</b>	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
<b>Personal Hygiene:</b>	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

#### 8.6 Personal Protective Equipment for Spills

<b>Respiratory protection:</b>	No respiratory protection should be needed.
<b>Eye protection:</b>	Use chemical worker's goggles.
<b>Skin protection:</b>	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
<b>Precautionary Measures:</b>	Avoid skin and eye contact. Do not take internally.

### 9. Physical and Chemical Properties

<b>9.1 Physical Form:</b>	Paste
<b>9.2 Colour:</b>	Grey
<b>9.3 Odour:</b>	Unique Smell
<b>9.4 Solubility in Water:</b>	Insoluble
<b>9.5 Boiling Point:</b>	Not applied
<b>9.6 Melting Point:</b>	Not applied
<b>9.7 Vapor Pressure @ 23°C:</b>	Not applied
<b>9.8 Volatiles:</b>	None
<b>9.9 Specific Gravity (water=1):</b>	1.04 (23°C)

### 10. Dangerous Information

<b>10.1 Flash Point:</b>	63°C
<b>10.2 Auto Ignition Temperature:</b>	450 °C
<b>10.3 Flammability Limits in Air % by Volume:</b>	Not applied
<b>10.4 Combustibility :</b>	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.

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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.
	11.11.1 SKIN CONTACT:	May cause mild skin irritation.
	11.11.2 EYE CONTACT:	Causes severe eye irritation may damage tissue.
	11.11.3 ACUTE ORAL TOXICITY:	Rat LD50 4ml/kg

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- 11.11.4 ACUTE INHALATION:** Rat LC50 >4.8mg/l/4H
- 11.11.5 INHALATION TOXICITY:** Narcotic in high concentration. Return to normal when exposure ends. Prolonged overexposure causes adverse effects on the blood.
- 11.11.6 SKIN SENSIBILITY:** Positive (guinea pig) No allergic reaction to humans.
- 11.11.7 NERVE TOXICITY:** Temporary declination in motor function at high concentration
- 11.11.8 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.
- 11.11.9 OTHER LONG-TERM EXPOSURE TESTS:** Atrophy of smell epithelium cells was observed in mice and rats.
- 11.11.10 PERMISSIBLE CONCENTRATION:** TWA 3 ppm (supplier's 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:** Solid material, insoluble in water. No adverse effects are predicted.
- 12.2 Bioaccumulation:** No data
- 12.3 Fish Toxicity:** No data

## 13. Disposal Information

- 13.1 Product Disposal:** Dispose of in accordance with local regulations.
- 13.2 Packaging Disposal:** Dispose of in accordance with local regulations.

Incineration should be made in approved chemical incinerator in accordance with regulations. Silica particulates are formed on incineration.

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#### 14. Transportation Information

- |      |                          |                                  |
|------|--------------------------|----------------------------------|
| 14.1 | Road and Rail Transport  | Not applicable.                  |
| 14.2 | Sea transport (IMDG)     | Not subject to IMDG code.        |
| 14.3 | Air Transport (IATA-DGR) | Not subject to IATA regulations. |

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

#### 15. Regulatory Information

- |      |  |  |
|------|--|--|
| 15.1 | <b>Classification and Labeling</b><br>Proposed Classification:<br>Risk Phrases:<br>Safety Phrases:         | Not hazardous.<br>Not hazardous.<br>S24/25 Avoid contact with skin and eyes.<br>S51 Use only in well-ventilated areas.   |
| 15.2 | <b>Applicable Laws</b>   | Occupational Safety and Health (Classification, Packaging and Labeling of Hazardous Chemicals) Regulations 1997  |
| 15.3 | <b>Chemical Inventories</b><br>AICS:<br>IECSC:<br>KECL:<br>PICCS:<br>TSCA:<br><br>EINECS:<br>MITI:<br>DSL: | All ingredients listed or exempt.<br>All ingredients listed or exempt.<br>All ingredients listed, exempt or notified.<br>All ingredients listed or exempt.<br>All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.<br>All ingredients listed or exempt.<br>Not determined.<br>Not determined. |

#### 16. Other Information

- |      |                              |   |
|------|------------------------------|---|
| 16.1 | <b>Quotation Documents :</b> | ACGIH TLV for Chemical Substances<br>Chemical safe administration data book (The Chemical Daily Co., Ltd.)  |
| 16.2 | <b>Precautions :</b>         | 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. |

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**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.

**Contact Point:  
Prepared by:**

General Manager - (21) 58301557 - 58  
PT Moderatama Markindo - Indonesia

This information is offered in good faith as typical values and not as product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

