

# KLEBERMANN®

## Material Safety Data Sheet

### KLEBERMANN® SILICONE GLASS SEALANT

#### 1. Chemical Product and Company Identification

##### 1.1 Product Details

**Product Name:** KLEBERMANN® SILICONE GLASS SEALANT  
**Other Name:** None  
**Chemical Family:** Silicone Sealant  
**Manufacturer's Product Code:** SS-KM  
**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 Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Symbols &amp; Health Risk Phrases</u>
Hydrotreated middle petroleum Distillates	64742-46-7	30-60	Xn Harmful R65 Harmful: May cause lung damage if swallowed.
Methyltriacetoxysilane	4253-34-3	<1	Xn Harmful. C Corrosive. R14 Reacts violently with water. R22 Harmful if swallowed. R34 Causes burns.
Ethyltriacetoxysilane	17689-77-9	<1	Xn Harmful. C Corrosive. R14 Reacts violently with water. R22 Harmful if swallowed. R34 Causes burns.

#### 3. Physical and Chemical Properties

**3.1 Physical Form:** Paste  
**3.2 Colour:** Translucent  
**3.3 Odour:** Acetic acid odor  
**3.4 Solubility in Water:** Not determined.  
**3.5 Boiling Point:** Not determined.  
**3.6 Melting Point:** Not determined.  
**3.7 Vapor Pressure @ 25°C:** Not determined.  
**3.8 Percent Volatiles:** Not determined.

# KLEBERMANN®

## Material Safety Data Sheet

### KLEBERMANN® SILICONE GLASS SEALANT PREMIUM

3.9	Evaporation Rate:	Not determined.
3.10	Vapour Density (air=1):	Not determined.
3.11	Specific Gravity:	0.95g/cm <sup>3</sup>
3.12	Flash Point:	100 °C (Closed Cup)
3.13	Auto ignition Temperature:	Not determined.
3.14	Upper Flammability Limit:	Not determined.
3.15	Lower Flammability Limit:	Not determined.

The above information is not intended for use in preparing product specifications.

#### 4. Hazard Identification

**Most Important Hazards:** Not hazardous.

#### 5. First Aid Measures

5.1	Ingestion:	Get medical attention.
5.2	Eye:	Immediately flush with water for 15 minutes. Get medical attention.
5.3	Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
5.4	Inhalation:	No first aid should be needed.
5.5	Comments:	Treat according to person's condition and specifics of exposure.
5.6	Note to physicians:	Treat symptomatically. For further information, the Medical Practitioner should refer to the phone numbers in Section 1.

#### 6. Fire Fighting Measures

6.1	Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO <sub>2</sub> ), dry chemical or water spray. Water can be used to cool fire exposed containers.
6.2	Unsuitable Extinguishing Media:	None established.
6.3	Unusual Fire Hazards:	None.
6.4	Special Firefighting Procedures:	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
6.5	Other Recommendations:	None.
6.6	Hazardous Combustion Products:	Carbon oxides and traces of incompletely burned carbon Silicon dioxide. Formaldehyde.

# KLEBERMANN®

## Material Safety Data Sheet

### KLEBERMANN® SILICONE GLASS SEALANT PREMIUM

#### 7. Accidental Release Measure

- 7.1 Personal Precautions:** Avoid skin and eye contact. Do not take internally.
- 7.2 Environmental Precautions:** Do not allow large quantities to enter drains or surface waters.
- 7.3 Methods for Cleaning up:** Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated Absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may Apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

#### 8. Handling and Storage

- 8.1 Handling Precautions:** Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control (HOAc) exposures within exposure guidelines or use respiratory protection. Avoid skin and eye contact. Do not take internally.  
Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 8.2 Storage Conditions:** Use reasonable care and store away from oxidizing Materials. Keep container closed and store away from water or moisture.
- 8.3 Unsuitable Packaging Materials:** None established.

#### 9. Exposure Control / Personal Protection

<b>9.1</b>	<b><u>Exposure Limits</u></b>	<b><u>CAS No.</u></b>	<b><u>Exposure Limit</u></b>
	<b><u>Ingredients</u></b>		
	Hydrotreated middle	64742-46-7	Observe oil mist limits. OSHA PEL (final rule and petroleum distillates ACGIH TLV: TWA 5 mg/m <sup>3</sup> ; ACGIH STEL 10mg/m <sup>3</sup> .
	Methyltriacetoxysilane	4253-34-3	See acetic acid comments.
	Ethyltriacetoxysilane	17689-77-9	See acetic acid comments.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

# KLEBERMANN®

## Material Safety Data Sheet

### KLEBERMANN® SILICONE GLASS SEALANT PREMIUM

- 9.2 Engineering Controls**  
**Local Ventilation:** None should be needed.  
**General Ventilation:** Recommended.
- 9.3 Personal Protective Equipment for Routine Handling**  
**Respiratory protection:** Suitable respiratory protection should be worn if the product used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.  
**Suitable Respirator:** Organic vapour / acid gas type  
**Eye:** Use chemical worker's goggles.  
**Hand:** Chemical protective gloves should be worn.  
**Skin:** 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.  
**Personal Hygiene:** Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 9.4 Personal Protective Equipment for Spills**  
**Respiratory protection:** No respiratory protection should be needed.  
**Eye protection:** Use chemical worker's goggles.  
**Skin protection:** 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.  
**Precautionary Measures:** Avoid skin and eye contact. Do not take internally. Use reasonable care.  
**Comments:** Product evolves acetic acid (HOAc) when exposed to water or humid Air. Provide ventilation during use to control HOAc exposures within exposure guidelines or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

## 10. Stability and Reactivity

- 10.1 Stability:** Stable.  
**10.2 Conditions to avoid:** None.  
**10.3 Materials to avoid:** Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form  
**10.4 Hazardous Decomposition Products:** Carbon oxides and traces of incompletely burned carbon compound. Silicon dioxide. Formaldehyde.  
**10.5 Hazardous Polymerization:** Hazardous polymerization will not occur.

# KLEBERMANN®

## Material Safety Data Sheet

### KLEBERMANN® SILICONE GLASS SEALANT PREMIUM

#### 11. Toxicological Information

##### 11.1 Possible Health Effects

###### Acute

**Skin:**

May cause moderate irritation.

**Eye:**

Direct contact may cause moderate irritation.

**Inhalation:**

Irritates respiratory passages very slightly.

**Ingestion:**

Low ingestion hazard in normal use.

###### Chronic

**Skin:**

Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis

**Inhalation:**

No known applicable information.

**Ingestion:**

Repeated ingestion or swallowing large amounts may injure internally.

**Other Health Hazard Information:**

No known applicable information.

11.2 **LD50 (Oral):**

Not determined.

**LD50 (Dermal):**

Not determined.

**LC50 (Inhalation):**

Not determined.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

#### 12. Ecological Information

- 12.1 **Environmental Fate and Distribution** Solid material, insoluble in water. No adverse effects are predicted.
- 12.2 **Environmental Effects:**  
**Bioaccumulation:** No adverse effects on aquatic organisms are predicted.  
No bioaccumulation potential.
- 12.3 **Fate and Effects in Waste**  
**Water Treatment Plants** No adverse effects on bacteria are predicted.

#### 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.

# KLEBERMANN®

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### KLEBERMANN® SILICONE GLASS SEALANT PREMIUM

#### 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. |

#### 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

<b>Contact Point:</b>	General Manager - (21) 58301557 - 58
<b>Prepared by:</b>	PT Moderatama Markindo - Indonesia

This information is offered in good faith as typical values and not as a 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.

