

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

1. Chemical Product and Company Identification

- 1.1 Product Details**
- Product Name:** KLEBERMANN PRO® NEUTRAL PREMIUM PLUS
Other Name: None
Chemical Family: Silicone Sealant
Manufacturer's Product Code: KMN-NPLUS
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
---	-------------------	---------------	----------------	-------------------------------

Polyalkylsiloxane				
Oxime silane				
Calcium carbonate				
Silica	10-20%			
Titanium oxide	1-10%			
Catalyst				
Adhesion promoting agent				
Hydrocarbon solvent	10-20%			
Iron oxide	0.1-10%			
Additives				

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.

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

- 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 Extinguishing Media:** On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
- 5.2 Unsuitable Extinguishing Media:** None established.
- 5.3 Unusual Fire Hazards:** None.
- 5.4 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.
- 5.5 Other Recommendations:** None.
- 5.6 Hazardous Combustion Products:** Carbon oxides and traces of incompletely burned carbon Silicon dioxide. Formaldehyde.

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

6. Accidental Release Measure

- 6.1 **Personal Precautions:** Avoid skin and eye contact. Do not take internally.
- 6.2 **Environmental Precautions:** Do not allow large quantities to enter drains or surface waters.
- 6.3 **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.
 - 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) :** 8mg/m³(at Silica dust)
15mg/m³(at Titanium oxide)
- 8.2.2 **ACGIH TLV(1997) :** T L V 10mg/m³(at Silica)
T W A 10mg/m³(at Titanium oxide)
- 8.3 **Equipment Measure :** Well ventilated area
Eyewash stations

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

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.

8.5 Personal Protective Equipment for Routine Handling

Respiratory protection:	Respiratory protection should be needed.
Suitable Respirator:	3M chemical approve mask
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.

8.6 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.

9. Physical and Chemical Properties

9.1	Physical Form:	Paste
9.2	Colour:	White to Grey
9.3	Odour:	Solvent-like smell
9.4	Solubility in Water:	Insoluble
9.5	Boiling Point:	240-265°C (at hydrocarbon solvent)
9.6	Melting Point:	Not applied
9.7	Vapor Pressure @ 23°C:	<2.3mmHg (at hydrocarbon solvent)
9.8	Volatiles:	Little
9.9	Specific Gravity (water=1):	1.35-1.38 (23°C)

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

10. Dangerous Information

- | | | |
|-------|---|--|
| 10.1 | Flash Point: | 63°C |
| 10.2 | Auto Ignition Temperature: | >200 °C (at hydrocarbon solvent) |
| 10.3 | Flammability Limits in Air % by Volume: | UEL 7 % LEL 1 % (at hydrocarbon solvent) |
| 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 Law 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 |

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

- 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
- 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-Degration:** 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.

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

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 | Classification and Labeling
Proposed Classification:
Risk Phrases:
Safety Phrases: | Not hazardous.
Not hazardous.
S24/25 Avoid contact with skin and eyes.
S51 Use only in well-ventilated areas. |
| 15.2 | Applicable Laws | Occupational Safety and Health (Classification, Packaging and Labeling of Hazardous Chemicals) Regulations 1997 |
| 15.3 | Chemical Inventories
AICS:
IECSC:
KECL:
PICCS:
TSCA:

EINECS:
MITI:
DSL: | All ingredients listed or exempt.
All ingredients listed or exempt.
All ingredients listed, exempt or notified.
All ingredients listed or exempt.
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

All ingredients listed or exempt.
Not determined.
Not determined. |

16. Other Information

- | | | |
|------|------------------------------|---|
| 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. |

KLEBERMANN®

Material Safety Data Sheet

KLEBERMANN PRO® Neutral Premium Plus

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.



P.T. MODERATAMA
MARKINDO

