

ALSTONE NP-666 NEUTRAL PLUS SILICONE SEALANT**IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY**

Product Name:	ALSTONE NEUTRAL PLUS SILICONE SEALANT
Manufacturer's Product Code:	NP-666
Chemical Classification:	Silicone Sealant
Use:	Sealant and adhesive
Company Details	
Manufacturer/Supplier:	Alstone Silicone India Private Limited
Address:	Plot No 420, Village Keshwana, Ricco Road, Kotputli, Jaipur-Rajasthan.
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Contact Person:	Environment, Health and Safety Leader

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture
Hazardous Ingredients:

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Symbols & Health Risk Phrases</u>
Hydrotreated middle petroleum distillates	64742-46-7	10 - <30	Not hazardous.
Methyl tri(ethylmethylketoxime) silane	22984-54-9	<10	Irritant. Irritating to eyes and skin. May cause sensitization by skin contact.
Aminoethylaminopropyltrimethoxysilane	1760-24-3	<1	Harmful. Irritant. Dangerous for the environment. Harmful by inhalation and if swallowed. Risk of serious damage to eyes. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Dimethyl tin di-neodecyl ester	68928-76-7	<1	Toxic. Harmful if swallowed. Toxic: danger of serious damage to health by prolonged exposure if swallowed. Possible risk of harm to the unborn child. May cause long-term adverse effects in the aquatic environment.

HAZARDS IDENTIFICATION

Overall Hazard Classification:	Not hazardous.
Hazard Information:	Not hazardous.
Precautionary Information:	Avoid contact with eyes. Wear suitable gloves. Use only in well-ventilated areas.
Signs and Symptoms of Overexposure:	No significant adverse effects from a single exposure expected from normal use.

FIRST AID MEASURES

Eye:	Immediately flush with water for 15 minutes.
Skin:	Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist.
Inhalation:	Remove to fresh air. Get medical attention if ill effects persist.
Ingestion:	Get medical attention.
Comments:	Treat according to person's condition and specifics of exposure.
Note to physicians:	Treat symptomatically. For further information, the medical practitioner should call at 8800 78 78 78.

FIRE-FIGHTING MEASURES

Hazardous Properties:	None.
Extinguishing Media:	On large fires use dry chemical or foam. On small fires use CO2 or dry chemical. Water can be used to cool fire exposed containers.
Special Fire Fighting Procedures and Equipment:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Hazardous Combustion Products:	Carbon oxides and traces of incompletely burned carbon compounds. Metal oxides. Silicon dioxide. Formaldehyde. Nitrogen oxides. Quartz.
Unsuitable Extinguishing Media:	Water. Do not allow extinguishing medium to contact container contents.

ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally.
Environmental Precautions:	Do not allow large quantities to enter drains or surface waters.

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 absorbant 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.

HANDLING AND STORAGE

Handling Precautions:

Use with adequate ventilation. Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus. Avoid skin and eye contact. Avoid breathing vapor. Keep container closed. Do not take internally. Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

Storage Conditions:

Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.

Unsuitable Packaging Materials:

None established.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Industrial Hygiene Standards

Ingredients

CAS No.

Exposure Limits

Hydrotreated middle petroleum distillates

64742-46-7

TWA 5 mg/m3.

Methyl tri(ethylmethylketoxime) silane

22984-54-9

See ethyl methyl ketoxime comments.

Aminoethylaminopropyltrimet hoxysilane

1760-24-3

See methyl alcohol comments.

Dimethyl tin di-neodecyl ester

68928-76-7

Observe organic tin compounds limits. TWA 0.1 mg/m3; ACGIH STEL 0.2 mg/m3.

Ethyl methyl ketoxime is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the following exposure guidelines: Vendor guide TWA: 3 ppm, STEL: 10 ppm. Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures.

Engineering Controls**Local Ventilation:** Recommended.**General Ventilation:** Recommended.**Personal Protective Equipment for Routine Handling****Respiratory protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.**Suitable Respirator:** Organic Vapor Type.**Eye:** Use proper protection - safety glasses as a minimum.**Hand:** Butyl Rubber. Natural Rubber. Neoprene Rubber(R). Nitrile Rubber.**Skin:** Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.**Personal Hygiene:** Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.**Personal Protective Equipment for Spills****Respiratory protection:** Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.**Eye protection:** Use full face respirator.**Skin protection:** Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.**Note:** These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.**PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form:	Paste
Color:	Black, White, Clear
Odor:	Some odor
pH:	Not determined.
Solubility in Water:	Not determined.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Flash Point:	Not applicable.
Autoignition Temperature:	Not determined.
Explosive properties:	No
Oxidizing properties:	No
Vapor Pressure @ 25°C:	Not determined.
Specific Gravity:	1.35
Octanol/water partition coefficient:	Not determined.
Vapour Density (air=1):	Not determined.
Viscosity:	Not determined.
Upper Flammability Limit:	Not determined.
Lower Flammability Limit:	Not determined.

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

STABILITY AND REACTIVITY

Stability:	Stable.
Reactivity	
Conditions to Avoid:	None.
Materials to Avoid:	Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form.
Hazardous Decomposition Products:	Carbon oxides and traces of incompletely burned carbon compounds. Metal oxides. Silicon dioxide. Formaldehyde. Nitrogen oxides. Quartz.
Hazardous Polymerization:	Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION**Routes of Entry**

[] Inhalation [X] Skin Contact [X] Ingestion

Possible Health EffectsAcute

Skin:	May cause moderate irritation.
Eye:	Direct contact may cause mild irritation.
Inhalation:	Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.
Ingestion:	Low ingestion hazard in normal use. Overexposure by ingestion may cause drowsiness, dizziness, confusion or loss of coordination.

Chronic

Skin:	Repeated skin contact may cause allergic skin reaction. Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.
Inhalation:	Overexposure by inhalation may injure the following organ(s): Blood. Liver.
Ingestion:	Repeated ingestion or swallowing large amounts may injure internally.

Sensitizing Effects:% (w/w)

<10

Ingredients

Methyl tri(ethylmethylketoxime) silane

**Mutagenic Effects:
Reproductive Effects:
Carcinogenic Effects:
Other Health Hazard Information:**

None known.
None known.
None known.
During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Long-term or repeated exposure to high concentrations of oxime-silanes may cause narcotic type effects on the nervous system, harmful effects on the blood (anemia) and irritate nasal passages, but these effects are reversible and not considered serious. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumor rates.

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.

ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Solid material, insoluble in water. No adverse effects are predicted.

Ecotoxicity: No adverse effects on aquatic organisms are predicted.

Bioaccumulation: No bioaccumulation potential.

Fate and Effects in Waste Water Treatment Plants: No adverse effects on bacteria are predicted.

DISPOSAL INFORMATION

Product Disposal: Dispose of in accordance with local regulations.

Packaging Disposal: Dispose of in accordance with local regulations.

TRANSPORT INFORMATION

Road and Rail Transport

Not applicable.

Sea transport (IMDG)

Not subject to IMDG code.

Air Transport (IATA)

Not subject to IATA regulations.

REGULATORY INFORMATION

NFPA Hazard Signals

Health 1 Flammability 1 Instability 0 Special -

Chemical Inventories

AICS : All ingredients listed or exempt.
IECSC : All ingredients listed or exempt.
KECL : All ingredients listed, exempt or notified.
HSNO : All ingredients listed or exempt.
PICCS : All ingredients listed or exempt.
EINECS : All ingredients listed or exempt.
ENCS/ISHL : Not determined.
TSCA : Not determined.
DSL : Not determined.

OTHER INFORMATION

Contact Point: Environment, Health and Safety Leader
Prepared by: Plant Manager

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.