


## DOW CORNING(R) NEUTRAL PLUS SILICONE SEALANT TRANSLUCENT

## 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1	Product Name:	DOW CORNING(R) NEUTRAL PLUS SILICONE SEALANT TRANSLUCENT	
1.2	Product Code:	04024752	
1.3	Chemical Classification:	Silicone Sealant	
1.4	Recommended Product Usage and Limited Use:	Sealant	
1.5	Company Details		
	Manufacturer/Supplier:	Dow Corning (China) Holding Company Limited	
	Address:	1077 Zhangheng Road, Zhangjiang Hi-Tech Park, Shanghai, P.R.C, Postal Code: 201203	
	Telephone Number:	400 880 7110	Fax Number: (86 21) 50796552
	Email Address:	China.info@dowcorning.com	
	Emergency Telephone Number:	(86 512) 56732049	
1.6	First Issuing Date:	2010/01/19	

## 2. HAZARD IDENTIFICATION

2.1	Hazard Classification:	Skin corrosion/irritation: Category 2 Serious eye damage/eye irritation: Category 2A Skin sensitization: Category 1
2.2	Label Elements Including Precautionary Statements	
	Symbol:	
	Signal Word:	Warning
	Hazard Risk Statement:	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
	Precautionary Statement:	Avoid breathing dust/fume/gas/mist/vapours/spray. Wear suitable protective clothing, gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If eye irritation persists, get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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Dispose of in accordance with local regulations.

2.3 Other Hazard: None known.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical characterization: Mixture

## 3.2 Hazardous Ingredients

Chemical Name	CAS No.	% (w/w)
Hydrotreated middle petroleum distillates	64742-46-7	10 - <30
Methyl tri(ethylmethylketoxime) silane	22984-54-9	<10
Vinyltri (methylethylketoxime) silane	2224-33-1	<10
Di (ethylmethylketoxime) methoxymethyl silane	83817-72-5	<10
Gamma-Aminopropyl triethoxysilane	919-30-2	<1
Oligomers of methoxy and oximofunctional silanes	-	<1
Methylethylketoxime	96-29-7	<1

## 4. FIRST AID MEASURES

## 4.1 First Aid Measures

**Eyes:** Immediately flush with water for 15 minutes. Get medical attention.  
**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.  
**Oral:** Get medical attention.  
**Comments:** Treat according to person's condition and specifics of exposure.

4.2 Important Symptoms and Hazard Effects: Causes skin and serious eye irritation. May cause an allergic skin reaction.

## 4.3 Personal Protection for First Aid or Rescue Personnel

**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.

4.4 Note to physicians: Treat symptomatically. For further information, the medical practitioner should contact Dow Corning (China) Holding Company Limited.

## 5. FIRE-FIGHTING MEASURES

5.1 Suitable 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.

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<b>5.2 Unsuitable Extinguishing Media:</b>	Water. Do not allow extinguishing medium to contact container contents.
<b>5.3 Specific Hazards:</b>	None.
<b>5.4 Special Fire Fighting Procedures:</b>	Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
<b>5.5 Special protective equipment for the Fire Fighters:</b>	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.

**6. ACCIDENTAL RELEASE MEASURES**

<b>6.1 Personal Precautions:</b>	Avoid skin and eye contact. Do not breathe vapour. Do not take internally.
<b>6.2 Environmental Precautions:</b>	Do not allow large quantities to enter drains or surface waters.
<b>6.3 Methods for Cleaning up:</b>	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.

**7. HANDLING AND STORAGE**

<b>7.1 Handling Precautions:</b>	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. Avoid skin and eye contact. Do not breathe vapour. Do not take internally. Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
<b>7.2 Storage Conditions:</b>	Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.
<b>7.3 Unsuitable Packaging Materials:</b>	None established.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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#### 8.1 Industrial Hygiene Standards:

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Hydrotreated middle petroleum distillates	64742-46-7	OSHA PEL (final rule) and ACGIH TLV for oil mists: TWA 5 mg/m <sup>3</sup> .
Methyl tri(ethylmethylketoxime) silane	22984-54-9	See ethyl methyl ketoxime comments.
Vinyltri (methylethylketoxime) silane	2224-33-1	See ethyl methyl ketoxime comments.
Di (ethylmethylketoxime) methoxymethyl silane	83817-72-5	See methyl alcohol and ethyl methyl ketoxime comments.
Gamma-Aminopropyl triethoxysilane	919-30-2	See ethyl alcohol comments.
Oligomers of methoxy and oximofunctional silanes	-	See ethyl methyl ketoxime comments.
Methylethylketoxime	96-29-7	Vendor guide: TWA 3 ppm, STEL 10 ppm.

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. Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule): TWA 1000 ppm and ACGIH TLV: STEL 1000 ppm. Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

#### 8.2 Engineering Controls

<b>Local Ventilation:</b>	Recommended.
<b>General Ventilation:</b>	Recommended.

#### 8.3 Personal Protective Equipment for Routine Handling

<b>Respiratory protection:</b>	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.
<b>Suitable Respirator:</b>	Organic Vapor Type.
<b>Eye protection:</b>	Use proper protection - safety glasses as a minimum.
<b>Hand protection:</b>	Chemical protective gloves should be worn.
<b>Skin protection:</b>	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.
<b>Hygiene Measures:</b>	Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

#### 8.4 Personal Protective Equipment for Spills

<b>Respiratory protection:</b>	Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.
<b>Eye protection:</b>	Use full face respirator.
<b>Skin protection:</b>	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.
<b>Precautionary Measures:</b>	Avoid skin and eye contact. Do not breathe vapour. Do not take internally. Use reasonable care.
<b>Comments:</b>	Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air.

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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.

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1	Physical Form:	Paste
9.2	Color:	Colorless
9.3	Odor:	Some odor
9.4	pH:	Not determined.
9.5	Melting Point:	Not determined.
9.6	Boiling point/range:	Not determined.
9.7	Flash Point:	100 °C(Closed Cup)
9.8	Explosive Limit:	Not determined.
9.9	Vapor Pressure @ 25°C:	Not determined.
9.10	Vapour Density (air=1):	Not determined.
9.11	Specific Gravity:	0.95 g/cm3
9.12	Water Solubility:	Not determined.
9.13	Partition Coefficient (n-Octanol/Water):	Not determined.
9.14	Autoignition temperature:	Not determined.
9.15	Decomposition Temperature :	Not determined.
9.16	Odor Threshold:	Not determined.
9.17	Evaporation Rate:	Not determined.
9.18	Flammability (Solid, Gas):	Not applicable.

*The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.*

**10. STABILITY AND REACTIVITY**

10.1	Stability:	Stable.
10.2	Possibility of Hazardous	Hazardous polymerization will not occur.

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#### Reactions:

- 10.3 Conditions to Avoid:** None.
- 10.4 Materials to Avoid:** Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form.
- 10.5 Hazardous Decomposition Products:** Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde. Nitrogen oxides.

### 11. TOXICOLOGICAL INFORMATION

- 11.1 Route of Exposure:** Skin contact and accidental ingestion.
- 11.2 Signs and Symptoms of Overexposure:** Causes skin and serious eye irritation. May cause an allergic skin reaction.
- 11.3 Acute Toxicity:**
- | <u>Chemical Name</u>                             | <u>CAS No.</u> | <u>LD50 (Oral)</u>   | <u>LD50 (Dermal)</u>   | <u>LC50 (Inhalation)</u>                                   |
|--|----------------|----------------------|------------------------|--|
| Hydrotreated middle petroleum distillates        | 64742-46-7     | > 20,000 mg/kg (Rat) | > 2,000 mg/kg (Rabbit) | -  |
| Methyl tri(ethylmethylketoxime) silane           | 22984-54-9     | > 2,520 mg/kg (Rat)  | -                      | -  |
| Vinyltri (methylethylketoxime) silane            | 2224-33-1      | > 2,000 mg/kg (Rat)  | > 2,000 mg/kg (Rat)    | -  |
| Gamma-Aminopropyl triethoxysilane                | 919-30-2       | 1.57 ML/KG (Rat)     | 4.29 ML/KG (Rabbit)    | > 0.176 mg/l (Rat; 4hr vapor)<br>> 19 ppm (Rat; 4hr vapor) |
| Oligomers of methoxy and oximofunctional silanes | -              | > 2,520 mg/kg (Rat)  | > 2,000 mg/kg          | -  |
| Methylethylketoxime                              | 96-29-7        | 2,326 mg/kg (Rat)    | < 1,800 mg/kg (Rabbit) | -  |
- Eyes:** Direct contact may cause severe irritation.
- Skin:** May cause moderate irritation. Repeated skin contact may cause allergic skin reaction.
- Ingestion:** Low ingestion hazard in normal use.
- Inhalation:** Irritates respiratory passages very slightly. Vapours evolved during curing may cause dizziness.
- 11.4 Chronic Toxicity**
- Skin:** Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis.
- Ingestion:** Repeated ingestion or swallowing large amounts may injure internally.
- Inhalation:** Prolonged or repeated exposure by inhalation may injure internally.
- 11.5 Other Health Hazard Information:** 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

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significant increases in liver tumor rates.  
This material may liberate methanol upon exposure to moisture or humid air.  
Overexposure to methanol can result in blindness and nervous system effects.

*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 Aquatic and Terrestrial Ecotoxicity****Ecotoxicity Effects:****Acute:** No adverse effects on aquatic organisms are predicted.**Chronic:** No adverse effects on aquatic organisms are predicted.**Fate and Effects in Waste Water Treatment Plants:** No adverse effects on bacteria are predicted.**12.2 Persistence and Degradability****Water:** Solid material, insoluble in water.**12.3 Bioaccumulative Potential****Bioaccumulation:** No bioaccumulation potential.**12.4 Mobility in Soil:**

This product is a solid and does not contain significant concentrations of water soluble constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.

**12.5 Additional Environmental Information:**

No specific information is available.

**13. DISPOSAL CONSIDERATIONS****13.1 Product Disposal:** Dispose of in accordance with local regulations.**13.2 Packaging Disposal:** Dispose of in accordance with local regulations.**14. TRANSPORT INFORMATION****14.1 Road and Rail Transport**

Not applicable.

**14.2 Sea Transport (IMDG)**

Not subject to IMDG code.

**14.3 Air Transport (IATA)**

Not subject to IATA regulations.

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**14.4 Special Requirements and Additional Information :** None.

**15. REGULATORY INFORMATION**

- 15.1 Applicable Laws:** Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace  
General rule for classification and hazard communication of chemicals [GB 13690-2009]
- 15.2 Chemical Inventories**
- |                   |   |
|-------------------|---|
| <b>EINECS:</b>    | All ingredients listed or exempt.   |
| <b>TSCA:</b>      | All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances. |
| <b>AICS:</b>      | All ingredients listed or exempt.   |
| <b>IECSC:</b>     | All ingredients listed or exempt.   |
| <b>ENCS/ISHL:</b> | All components are listed on ENCS/ISHL or its exempt rule.  |
| <b>KECL:</b>      | All ingredients listed, exempt or notified.   |
| <b>PICCS:</b>     | All ingredients listed or exempt.   |
| <b>HSNO:</b>      | All ingredients listed or exempt.   |
| <b>DSL:</b>       | Not determined.   |

**16. OTHER INFORMATION**

- 16.1 Contact Point:** Technical Information Center 400 880 7110
- 16.2 Prepared by:** Dow Corning (China) Holding Company Limited

**Legend:**

- No specific information available

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.

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