

**NEMPAL 113 Antifungal Silicone Sealant**Version:  
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-Date of Last Issue:  
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01/09/2024**SECTION 1: Identification of the hazardous chemical and of the supplier****1.1 Product identifier**

Name : 113 Antifungal Silicone Sealant

**1.2 Other means of identification**

No additional information available

**1.3 Recommended use of the chemical and restrictions on use**

Recommended use : Sealant

**1.4 Supplier details**

Company : Bond Alike Sdn. Bhd.  
Address : No. 15, Jalan BP 4/1, Bandar Bukit Puchong, 47120 Puchong, Selangor, Malaysia.  
Phone : +603 5889 1615  
Email : sales@nempal.com

**1.5 Emergency phone number**

+603-5889 1615


**SECTION 2: Hazards identification****2.1 Classification of the hazardous chemical**

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

**2.2 Label elements**

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY) : 

Signal word (GHS MY) : Warning

Contains : BUTAN-2-ONE O,O',O''-(VINYL SILYLIDYNE)TRIOXIME;  
BUTAN-2-ONE O,O',O''- (METHYL SILYLIDYNE)TRIOXIME;  
N-(3-(TRIMETHOXY SILYL)PROPYL)ETHYLENEDIAMINE

Hazard statements (GHS MY) : H317 - May cause an allergic skin reaction  
H412 - Harmful to aquatic life with long lasting effects.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P273 - Avoid release to the environment.

Precautionary statements (GHS MY) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water/...  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3 Other hazards that do not result in classification**

No additional information available

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01/09/2024**SECTION 3: Composition and information of the ingredients of the hazardous chemical****3.1 Substances**

Not applicable

**3.2 Mixtures**

Name	Product identifier	%
Carbonic acid, calcium salt (1:1)	(CAS-No.) 471-34-1	40 – 60
Poly[oxy(dimethylsilylene)]	(CAS-No.) 9016-00-6	35 – 55
Dimethyl silicone	(CAS-No.) 9006-65-9	0 – 10
Silica, amorphous, fumed, crystalline-free	(CAS-No.) 112945-52-5	0 – 10
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime	(CAS-No.) 22984-54-9	0.5 – 2
2-Butanone, O,O',O''-(ethenylsilyldiyl)trioxime	(CAS-No.) 2224-33-1	0 – 2
Glycidoxypropyltrimethoxysilane	(CAS-No.) 2530-83-8	0.1 – 1
1-Propanamine, 3-(triethoxysilyl)-	(CAS-No.) 919-30-2	0.1 – 1
Dibutyltin dilaurate	(CAS-No.) 77-58-7	0.05 – 0.2

**SECTION 4: First-aid measures****4.1 Description of necessary first aid measures**

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Call a poison centre or a doctor if feel unwell.

**4.2 Most important symptoms/effects, acute and delayed**

- Symptoms/effects after skin contact : May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Eye irritation.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

- Other medical advice or treatment : Treat symptomatically.

**SECTION 5: Fire-fighting measures****5.1 Suitable extinguishing media**

- Suitable extinguishing media : Water spray. Dry powder. Foam.

**5.2 Physicochemical hazards arising from the chemical**

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

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### 5.3 Special protective equipment and precautions for fire fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

#### 6.1.1 For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2 For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection"

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the workstation. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

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## SECTION 8: Exposure controls and personal protection

### 8.1 Control parameters

No additional information available

#### Exposure limit values for the other components

No additional information available

#### 8.1.1 Biological monitoring


No additional information available

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01/09/2024**8.2 Appropriate engineering controls**

Appropriate engineering controls : Ensure good ventilation of the workstation.

**8.3. Individual protection measures, such as PPE**

Hand protection : Protective gloves  
Eye protection : Safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s) : 

Environmental exposure controls : Avoid release to the environment

**SECTION 9: Physical and chemical properties**

Physical state : Solid  
Appearance : Paste  
Colour : Various colours  
Odour : Characteristic odour  
Odour threshold : No data available  
pH : No data available  
Melting point : No data available  
Freezing point : Not applicable  
Boiling point : No data available  
Flash point : Not applicable  
Evaporation rate : No data available  
Flammability (solid, gas) : Non flammable.  
Explosive limits : Not applicable  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : ≈ 1.0 (translucent), 1.4 (white)  
Solubility : No data available  
Partition coefficient n-octanol/water (Log Pow) : No data available  
Partition coefficient n-octanol/water (Log Kow) : No data available  
Auto-ignition temperature : Not applicable  
Decomposition temperature : No data available  
Viscosity, kinematic : Not applicable  
Viscosity, dynamic : No data available  
VOC content : No data available

**SECTION 10: Stability and reactivity**

Reactivity : The product is non-reactive under normal conditions of use, storage and transport  
Chemical stability : Stable under normal conditions  
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use  
Conditions to avoid : None under recommended storage and handling conditions (see section 7)  
Incompatible materials : No data available  
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

<b>Carbonic acid, calcium salt (1:1) (471-34-1)</b>	
LD50 oral rat	6450 mg/kg
<b>Silica, amorphous, fumed, crystalline-free (112945-52-5)</b>	
LD50 oral rat	3160 mg/kg
<b>Dimethyl silicone (9006-65-9)</b>	
LD50 dermal rat	> 2008 mg/kg
<b>1-Propanamine, 3-(triethoxysilyl)- (919-30-2)</b>	
LD50 oral rat	1780 mg/kg
LD50 dermal rabbit	4290 mg/kg
LC50 inhalation rat (mg/l)	> 7.35 mg/l/4h
<b>Glycidoxypropyltrimethoxysilane (2530-83-8)</b>	
LD50 oral rat	7.01 g/kg
LC50 inhalation rat (mg/l)	> 5.3 mg/l/4h
<b>Dibutyltin dilaurate (77-58-7)</b>	
LD50 oral rat	45 mg/kg
LD50 dermal rabbit	630 mg/kg

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory sensitization : Not classified  
 Skin sensitization : May cause an allergic skin reaction  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 STOT-single exposure : Not classified  
 Aspiration hazard : Not classified.  
 Viscosity, kinematic : Not applicable

### SECTION 12: Ecological information

#### 12.1 Ecotoxicity

Ecology - general : Harmful to aquatic life with long lasting effects.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified  
 Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

#### 12.2 Persistence and degradability

No additional information available

<b>113 Antifungal Silicone Sealant</b>	
Persistence and degradability	Not rapidly degradable

<b>BUTAN-2-ONE O,O',O''-(VINYL-SILYLIDYNE)TRIOXIME (2224-33-1)</b>	
Persistence and degradability	Not rapidly degradable

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01/09/2024**BUTAN-2-ONE O,O',O"--(METHYLSILYLIDYNE)TRIOXIME (22984-54-9)**

Persistence and degradability : Not rapidly degradable

**12.3 Bioaccumulative potential**

No additional information available

**12.4 Mobility in soil**

No additional information available

**12.5 Other adverse effects**Ozone : Not classified  
Other adverse effects : No additional information available**SECTION 13: Disposal information****13.1 Disposal methods**

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

**SECTION 14: Transportation information**

In accordance with IMDG / IATA / UN RTDG.

**14.1 UN number**UN-No.(UN RTDG) : Not applicable  
UN-No. (IMDG) : Not regulated  
UN-No. (IATA) : Not regulated**14.2 UN proper shipping name**Proper Shipping Name (UN RTDG) : Not applicable  
Proper Shipping Name (IMDG) : Not regulated  
Proper Shipping Name (IATA) : Not regulated**14.3 Transport hazard class(es)****UN RTDG**  
Transport hazard class(es) (UN RTDG) : Not applicable**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable**IATA**  
Transport hazard class(es) (IATA) : Not applicable**14.4 Packing Group, if applicable**Packing group (UN RTDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

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### 14.5 Environmental hazards

Dangerous for the environment : No  
 Marine pollutant : No  
 Other information : No supplementary information available

### 14.6 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

**UN RTDG**  
Not Applicable

**IMDG**  
Not regulated

**IATA**  
No regulated

### 14.7 Special precautions for user

Not applicable

### 14.8 Hazchem or Emergency Action Code

Not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health, and environmental regulations specific for the hazardous chemical in question

Regulation	Component/ Mixture
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993	113 Antifungal Silicone Sealant
Environmental Quality (Industrial Effluent) Regulations 2009	
Environmental Quality (Scheduled Wastes) Regulations 2007	
Control of Industrial Major Accident Hazards Regulations 1996	
Prohibition of Use of Substance Order 1999	
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000	
Chemical Weapons Convention Act	
Corrosive and Explosive Substances and Offensive Weapons Act	
Dangerous Drugs Act	
Petroleum (Safety Measures) Act	
Poisons Act 1952	
Poisons (Psychotropic Substances) Regulations 1989	
Pesticides Act	

Carbonic acid, calcium salt (1:1) (471-34-1)  
 Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9)  
 Listed on the United States TSCA (Toxic Substances Control Act) inventory  
 2-Butanone, O,O',O''-(ethenylsilylidyne)trioxime (2224-33-1)  
 Listed on the United States TSCA (Toxic Substances Control Act) inventory  
 1-Propanamine, 3-(triethoxysilyl)- (919-30-2)  
 Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Glycidoxypropyltrimethoxysilane (2530-83-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Dibutyltin dilaurate (77-58-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### CANADA

Poly[oxy(dimethylsilylene)] (9016-00-6)
Listed on the Canadian DSL (Domestic Substances List)
Carbonic acid, calcium salt (1:1) (471-34-1)
Listed on the Canadian DSL (Domestic Substances List)
Silica, amorphous, fumed, crystalline-free (112945-52-5)
Listed on the Canadian DSL (Domestic Substances List)
Dimethyl silicone (9006-65-9)
Listed on the Canadian DSL (Domestic Substances List)
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime (22984-54-9)
Listed on the Canadian DSL (Domestic Substances List)
2-Butanone, O,O',O''-(ethenylsilyldiyl)trioxime (2224-33-1)
Listed on the Canadian DSL (Domestic Substances List)
1-Propanamine, 3-(triethoxysilyl)- (919-30-2)
Listed on the Canadian DSL (Domestic Substances List)
Glycidoxypropyltrimethoxysilane (2530-83-8)
Listed on the Canadian DSL (Domestic Substances List)
Dibutyltin dilaurate (77-58-7)
Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

Carbonic acid, calcium salt (1:1) (471-34-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
2-Butanone, O,O',O''-(methylsilyldiyl)trioxime (22984-54-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
2-Butanone, O,O',O''-(ethenylsilyldiyl)trioxime (2224-33-1)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
1-Propanamine, 3-(triethoxysilyl)- (919-30-2)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Glycidoxypropyltrimethoxysilane (2530-83-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Dibutyltin dilaurate (77-58-7)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### 15.2 International agreements

No additional information available

## SECTION 16: Other information

### 16.1 Full text of H-statements

Acute Tox. Not classified (Dermal)	:	Acute toxicity (dermal) Not classified
Acute Tox. Not classified (Oral)	:	Acute toxicity (oral) Not classified
Aquatic Acute Not classified	:	Hazardous to the aquatic environment – Acute Hazard Not classified
Aquatic Chronic 1	:	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Eye Dam. 1	:	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2	:	Serious eye damage or eye irritation, Category 2

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Repr. 2	:	Reproductive toxicity, Category 2
STOT RE 2	:	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	:	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H317	:	May cause an allergic skin reaction
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H335	:	May cause respiratory irritation.
H361f	:	Suspected of damaging fertility.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H410	:	Very toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

**16.2 Abbreviations and acronyms**

CAS-No. - Chemical Abstract Service number  
ATE - Acute Toxicity Estimate  
EC50 - Median effective concentration  
EC-No. - European Community number  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Median lethal concentration  
LD50 - Median lethal dose  
LOAEL - Lowest Observed Adverse Effect Level  
N.O.S. - Not Otherwise Specified  
NOAEC - No-Observed Adverse Effect Concentration  
NOAEL - No-Observed Adverse Effect Level  
NOEC - No-Observed Effect Concentration  
OEL - Occupational Exposure Limit  
SDS - Safety Data Sheet

**16.3 Date Format**

Date format : dd/mm/yyyy

**Safety Data Sheet (SDS), Malaysia**

Safety Data Sheets are updated from time to time. Please ensure that you have the latest copy. SDS may be obtained from the following website [www.nempal.com](http://www.nempal.com)

The information provided is based on our current knowledge and is intended solely to describe the product for health, safety, and environmental compliance purposes. It should not be interpreted as a warranty of any particular product characteristic.

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