

NEMPAL[®] 113 Antifungal Silicone SealantVersion:
26-01Revision Date:
26 June 2026Date of Last Issue:
01/09/2024Date of First Issue:
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. 16, Jalan Inovatif 2/3, KIIP@Kuala Langat, 42700 Banting, 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)ETHYLENEDIAMINEHazard 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.

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.

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.

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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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

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

113 Antifungal Silicone Sealant	
Persistence and degradability	Not rapidly degradable
BUTAN-2-ONE O,O',O''-(VINYL-SILYLIDYNE)TRIOXIME (2224-33-1)	
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	Not applicable	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	List of active ingredients	

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''-(methylsilyldiyl)trioxime (22984-54-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Butanone, O,O',O''-(ethenylsilyldiyl)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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Glycidoxypolytrimethoxysilane (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)
Glycidoxypolytrimethoxysilane (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)
Glycidoxypolytrimethoxysilane (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

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.
