

NEMPAL 121 Universal Acrylic Gap SealantVersion:
24-01Revision Date:
-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 : 121 Universal Acrylic Gap 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 : info@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)
Not classified.

2.2 Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)
No labelling applicable.

2.3 Other hazards that do not result in classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical Name	Percent (by weight)	CAS No.	EC#
Latex	30% - 50%	79-10-7	N/A
DOP	4%-7%	117-81-7	204-211-0
Titanium dioxide	4%-7%	13463-67-7	236-675-5
CaCO ₃	40% - 60%	471-34-1	207-439-9
Propane-1,2-diol	0.5% - 1.0%	57-55-6	200-338-0
DA dispersing agent	0.5% - 1.0%	1310-73-2	N/A

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

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- First-aid measures after skin contact : Wipe off the product and wash skin with soap and water. Get medical attention if irritation or other ill effects develop or persist. Wash clothing before reuse.
- First-aid measures after eye contact : Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easily possible. Get medical aid immediately.
- First-aid measures after ingestion : If swallowed, do not induce vomiting. If the injured is fully conscious: wash mouth out with water, then drink 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

4.2 Most important symptoms/effects, acute and delayed

No additional information available

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. Carbon Dioxide.

5.2 Physicochemical hazards arising from the chemical

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

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.

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"

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the workstation. Wear personal protective equipment.
Hygiene measures : 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 an original container. Keep container tightly closed when not in use. Protect from freezing. Store in a cool (Below 30°C), dry, well-ventilated area away from incompatible substances (see section 10), any sources of ignition or heat (e.g. open flames, sparks, direct sunlight, smoking, hot surfaces), foodstuffs, beverages and foods. Inspect regularly for deficiencies such as damage or leaks. Treat carefully, avoid physical damage to containers. The storage area should be equipped with the corresponding species and quantity of fire equipment and leakage emergency equipment.

SECTION 8: Exposure controls and personal protection

8.1 Control parameters

Bis(2-ethylhexyl) phthalate (117-81-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	5 mg/m ³
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans

Titanium dioxide (13463-67-7)	
EU - Occupational Exposure Limits	
Local name	Titanium dioxide
Notes	(Ongoing)
Regulatory reference	SCOEL Recommendations
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	10 mg/m ³
ACGIH chemical category	Not Classifiable as a Human Carcinogen

Sodium hydroxide (1310-73-2)	
India - Occupational Exposure Limits	

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PEL Ceilings (mg/m ³)	2 mg/m ³
USA - ACGIH - Occupational Exposure Limits	
ACGIH Ceiling (mg/m ³)	2 mg/m ³

Exposure limit values for the other components

No additional information available

8.1.1 Biological monitoring




No additional information available

8.2 Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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 : Liquid
 Appearance : Paste
 Colour : White
 Odour : Perceptible odour
 Odour threshold : No data available
 pH : 7-9
 Melting point : Not applicable
 Freezing point : No data available
 Boiling point : No data available
 Flash point : >150°C
 Evaporation rate : No data available
 Flammability (solid, gas) : Not applicable
 Explosive limits : Not applicable
 Vapour pressure : No data available
 Relative vapour density at 20 °C : No data available
 Relative density : ≈ 1.6
 Solubility : Form milky white suspension with water
 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

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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

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Composition: CAS# 117-81-7**

- RTECS# TI0350000
- LD50: 29.5 g/kg (Oral, mouse)
- LD50: 1500 mg/kg (Oral, mouse)
- LD50: 30 g/kg (Oral, rat)
- LD50: 34 g/kg (Oral, rabbit)
- LD50: 25 g/kg (Skin, rabbit)

Composition: CAS# 13463-67-7

- RTECS# XR2275000

Composition: CAS# 471-34-1

- RTECS# FF9335000
- LD50: 6450 mg/kg (Oral, rat)

Composition: CAS# 57-55-6

- RTECS# TY2000000
- LD50: 20 g/kg (Oral, rat)
- LD50: 22 g/kg (Oral, mouse)
- LD50: 20300 mg/kg (Oral, mouse)
- LD50: 18500 mg/kg (Oral, rabbit)
- LD50: 20800 mg/kg (Skin, rabbit)

Carcinogenicity:**Composition: CAS# 117-81-7**

- ACGIH: A3-Confirmed animal carcinogen with unknown relevance to humans.
- IARC: Group 3-Not classifiable as to carcinogenicity to humans.
- NTP: Listed as carcinogen.
- CA Prop 65: Carcinogen; initial date 1/1/1988.
- EC Classification: Repr. Cat. 2- Category 2 reproductive toxins.

Composition: CAS# 13463-67-7

- ACGIH: A4-Not classifiable as a human carcinogen.
- IARC: Group 2B-Possibly carcinogenic to humans.
- Not listed by NTP or CA Prop 65.

Composition: CAS# 471-34-1

- Not listed by ACGIH, IARC, NTP or CA Prop 65.

Composition: CAS# 57-55-6

- Not listed by ACGIH, IARC, NTP or CA Prop 65.

Sensitization Rate:

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01/09/2024**Composition: CAS# 117-81-7**

- Draize test, rabbit, eye: 500 mg Mild
- Draize test, rabbit, eye: 500 mg/24H Mild
- Draize test, rabbit, skin: 500 mg/24H Mild

Composition: CAS# 13463-67-7

- No date available.

Composition: CAS# 471-34-1

- Draize test, rabbit, eye: 750 µg/24H Severe
- Draize test, rabbit, skin: 500 mg/24H Moderate

Composition: CAS# 57-55-6

- Draize test, rabbit, eye: 100 mg Mild
 - Draize test, rabbit, eye: 500 mg/24H Mild
- Teratogenicity: Not available.

SECTION 12: Ecological information**12.1 Ecotoxicity**

Composition: CAS# 117-81-7

- LC50: > 0.32mg/l (96h, flow through, oncorhynchus mykiss, fish, fresh water)
- LC50: > 0.67mg/l (96h, flow through, pimephales promelas, fish, fresh water)
- LC50: > 0.17 mg/l (96h, static, cyprinodon variegatus, fish, estuary, marine)
- LC50: > 0.2 mg/l (96h, static, lepomis macrochirus, fish, fresh water)
- LC50: > 0.16 mg/l (96h, static, pimephales promelas, fish, fresh water)
- EC50: > 0.1 mg/l (96h, selenastrum capricornutum, alga)

Composition: CAS# 13463-67-7

- No data available.

Composition: CAS# 471-34-1

- No data available.

Composition: CAS# 57-55-6

- LC50: 23800mg/l; NOEC: < 16000mg/l (96h, static, cyprinodont variegatus, fish, estuary, marine)
- LC50: 51600 mg/l; NOEC: 42000mg/l (96h, static, oncorhynchus mykiss, fish, fresh water)
- LC50: 51400 mg/l; NOEC: 41000mg/l (96h, static, pimephales promelas, fish, fresh water)
- LC50: 43500 mg/l; NOEC: 28500mg/l (48h, Daphnia magna, crustacea)

Ecological Degradation: Not available.

Biology Degradation:

Composition: CAS# 117-81-7

- Standard type, 4 weeks, Chemical Concentration 100mg/L, Concentration of Activated Sludge 30mg/L.
- BOD: 69% (Indirect Analysis)
- Ready biodegradability.

Composition: CAS# 13463-67-7

- No data available.

Composition: CAS# 471-34-1

- No data available.

Composition: CAS# 57-55-6

- Standard type, 4 weeks, Chemical Concentration 100ppm, Concentration of Activated Sludge 30ppm.
- BOD: 90% (Indirect Analysis)
- TOC: 99% (Direct Analysis)
- Ready biodegradability.

Bioconcentration:

Composition: CAS# 117-81-7

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- LC50: > 3000ppm (48H, Rice fish-Oryzias latipes)
- BCF: 1.0-3.4 (Concentration 1ppm)
- BCF: < 0.7-29.7 (Concentration 0.1ppm)
- Low bioconcentration.
- Composition: CAS# 13463-67-7
- LC50: > 20mg/L (48H, Rice fish-Oryzias latipes)
- BCF: < 1.1-9.6 (Concentration 2.0mg/L)
- BCF: < 10 (Concentration 0.2mg/L)
- Low bioconcentration.
- Composition: CAS# 471-34-1
- No data available.
- Composition: CAS# 57-55-6
- No data available.

12.2 Persistence and degradability

No additional information available

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Persistence and degradability	No additional information available

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 : The generation of waste should be avoided or minimized wherever possible. Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transportation information

In accordance with IMDG / IATA / UN RTDG.

14.1 UN number

UN-No.(UN RTDG) : Not regulated

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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

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
No data available.

IMDG
No data available.

IATA
No data available.

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	

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Environmental Quality (Industrial Effluent) Regulations 2009		121 Universal Acrylic Gap Sealant
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		

Regulatory Information: Reference to the local, national, US, EU, CA and international regulations.

TSCA: CAS# 4253-34-3, CAS# 1067-33-0 and CAS# 7631-86-9 are listed.

DSL: CAS# 4253-34-3, CAS# 1067-33-0 and CAS# 7631-86-9 are listed.

OSHA: CAS# 4253-34-3 and CAS# 1067-33-0 are unlisted. CAS# 7631-86-9 is listed.

California Prop 65: CAS# 4253-34-3, CAS# 1067-33-0 and CAS# 7631-86-9 are unlisted.

European Labeling in Accordance with EC Directives:

Hazard Symbols: Xi: Irritant.

Risk Description: R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety Description:

S 3/9: Keep in a cool, well-ventilated place.

S 24/25: Avoid contact with skin and eyes

15.2 International agreements

No additional information available

SECTION 16: Other information

16.1 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

16.2 Date Format

Date format : dd/mm/yyyy

Safety Data Sheet (SDS), Malaysia

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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.
