Material Safety Data Sheet

Revision 4

SEALSUM All-purpose

SEALSSUM

Issue Date: **16/09/2020**
Revision Date: **09/06/2024**

SECTION 1 Chemical Product and Company Identification

Product Identification

Product name	SEALSUM All-purpose
Use of Product	Sanitary silicone sealant

Company Identification

Registered company name	BAYTINA PLUS
Address	23 Enterprise Avenue, Tweed Heads South NSW2486
Department	Technical Research Institute
Website	www.sealsum.com.au

Emergency telephone number

For Australia	AUSTRALIAN POISONS INFORMATION CENTRE: 13 11 26 (24 HOUR SERVICE), 000 (POLICE OR FIRE BRIGADE)

SECTION 2 Hazards Identification

A. Hazards, Risks Classification of Substance

Skin Corrosion / Irritation	Category 1
Serious Eye Damage	Category 1

B. Warning Signs Elements including Precaution Phrase

▶ **Pictograph:**

▶ **Signal word: Danger**

▶ **Hazard and risk statements:**

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

▶ **Precautionary statement(s) Prevention**

P261: Avoid inhaling dust/fume/gas/mist/vapors/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

▶ **Precautionary statement(s) Response**

P302+P352: If on skin: Rinse with plenty of water.

P305+P351+P338: If in eyes: Rinse cautiously with water for a few minutes. If possible, remove contact lenses.

Keep washing up.

P310: Immediately seek medical attention from a doctor/medical institution.

P312: If you feel unwell, seek medical attention from a doctor/medical institution.

P321: Take emergency measures.

P333+P313: If skin irritation occurs: Seek medical attention/advice.

P362+P364: Take off contaminated clothing and wash it before reuse.

▶ **Precautionary statement(s) Disposal**

P501: Dispose of the contents/containers according to waste disposal regulations.

C. Other hazards and risks not included in the criteria for classification of hazards and risks.

No data

SECTION 3 Composition Name and Content

Chemical name	Name	CAS No.	Content (%)
Siloxanes and Silicones, di-Me, hydroxy-terminated	DIMETHYLPOLYSILOXANE	70131-67-8	60-70
2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime)	METHYLTRI(2- BUTANONEOXIMYL)SILANE	22984-54-9	4-8
Propiconazole	Propiconazole	60207-90-1	0.1-0.3
Aquafil	(SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE);Aquafil	112945-52-5	5-10
Polydimethylsiloxanes	DIMETHYLPOLYSILOXANE/WATER EMULSIONS	63148-62-9	15-20
Aminoethyl-aminopropyl-trimethoxysilane	3-(TRIMETHOXYSILYL)PROPYL)ETHYL	1760-24-3	0.5-1.5

SECTION 4 First Aid Measures

A. When it gets into your eyes:

- **Get emergency medical attention.**
- **If in contact with the substance, if possible, remove contact lenses and immediately flush the skin and eyes with running water for at least 20 minutes.**

B. When it comes into contact with your skin:

- **If it comes into contact with your skin (or hair), remove all contaminated clothing.**
- **Rinse your skin with water/Take a shower.**
- **If you feel unwell, seek medical attention from a doctor (medical institution).**
- **Clean contaminated clothing before reuse.**
- **Get emergency medical attention.**
- **For hot substances, immerse or rinse the affected body part with large amounts of cold water to remove heat.**
- **Remove contaminated clothing and shoes, and isolate the contaminated area.**
- **Prevent the spread of contaminated body part in case of minor skin contact.**

C. When inhaled:

- **Immediately seek medical attention from a doctor (medical institution).**
- **Don't induce vomiting.**
- **If exposed to excessive dust or fumes remove to fresh air and seek medical attention if experiencing coughing or other symptoms.**
- **If not breathing, give artificial respiration. Give oxygen if breathing is difficult.**

D. When eaten:

- **If swallowed, immediately seek medical attention from a doctor (medical institution).**
- **If swallowed, rinse mouth out. Don't induce vomiting.**
- **Don't induce vomiting**

E. Other doctor's notes

- **Ensure that the medical personnel are aware of the substance and take protective measures.**

SECTION 5 Countermeasures against Explosion and Fire

A. Appropriate (Inappropriate) fire extinguishing agents:

- **Use alcohol foam, carbon dioxide or water spray for fire extinguishing involving this substance.**
- **In case of the extinguishment by smothering, use dry sand or soil.**

B. Specific hazards arising from the chemical:

- **During burning, irritating and very toxic gas may be generated by pyrolysis or combustion.**
- **When heated, the container may explode.**
- **Some can burn, but not easily ignite.**
- **Non-flammable; the substance itself does not burn, but it may decompose when heated and generate corrosive/toxic fume.**

C. Protective equipment to be worn and prevention measures in case of fire extinguishing:

- **Rescuers should wear appropriate protective equipment.**
- **Get out of the area and extinguish at a safe distance.**
- **Be cautious as it may be transported in a molten state.**
- **To dispose of the extinguishing water, dig a trench to contain it and prevent the substance from scattering.**
- **Move the container from fire area if you can do it without risk.**
- **In case of tank fire, extinguish from maximum distance or use unmanned firefighting equipment.**
- **In case of tank fire, continue to cool the container with plenty of water even after fire is out.**
- **In case of tank fire, retreat immediately if there is a high-pitched sound from the pressure relief device or if the tank**
- **In case of tank fire, retreat from the tank engulfed in flames.**
- **In case of tank fire, if it is a large-scale fire, use unmanned firefighting equipment. If it is not possible, retreat and let it burn.**

SECTION 6 Measures against Accidental Release

A. Measures and protective equipment required to protect human body:

- ▶ **Avoid inhaling (dust, fume, gas, mist, vapor and spray).**
- ▶ **Wipe off spills immediately, and follow the precautions in the section of protective equipment.**
- ▶ **Remove all the sources of ignition.**
- ▶ **If it is not dangerous, stop leaking.**
- ▶ **Do not touch damaged containers or leaks without wearing appropriate protective clothing.**
- ▶ **Cover with plastic sheet to prevent diffusion.**
- ▶ **Prevent dust formation.**
- ▶ **Pay attention to the substances and conditions to avoid.**

B. Measures required to protect the environment:

- ▶ **Prevent entry into waterways, sewers, basements and confined spaces.**

C. Cleaning up or removing methods:

- ▶ **Absorb the spill with inert substances (for instance, dry sand or soil), and put it in a chemical waste container.**
- ▶ **Absorb the liquid and wash the contaminated area with detergent and water.**

SECTION 7 Handling and Storage

Safe handling method:	▶ Avoid inhaling (dust, fume, gas, mist, vapor and spray). ▶ Wash the handled area thoroughly after handling. ▶ Use only outdoors or in a well-ventilated area. ▶ Follow all MSDS/label precautions as there may still be product residue remaining even after the container is ▶ Handle and store with caution before use. ▶ Carefully remove the cap before opening. ▶ Avoid prolonged or continuous skin contact. ▶ Pay attention to substances and conditions to be avoided. ▶ Perform the task referring to Engineering Management and Personal Protective Equipment.
Safe storage method	▶ Store the container tightly sealed in a well-ventilated area. ▶ Completely drain and properly seal empty drums, then promptly return them to the drum handling equipment or arrange them appropriately.

SECTION 8 Exposure Prevention and Personal Protective Equipment

A. Exposure standards of chemical substances, biological exposure standards and etc.:

Name	Domestic Regulations	ACGIH Regulations	Biological Exposure Standards
Siloxanes and Silicones, di-Me, hydroxy-terminated	No data	No data	No data
2-Butanone, 2,2',2''-(O,O',O''-(methylsilylidyne)trioxime)	No data	No data	No data
Aquafil	No data	No data	No data
Methyl Cellulose	No data	No data	No data
Polydimethylsiloxanes	No data	No data	No data
Aminoethyl-aminopropyl-trimethoxysilane	No data	No data	No data

B. Appropriate engineering control:

- ▶ **Implement process isolation, local exhaust, or other engineering controls to adjust air levels below the exposure**
- ▶ **Ensure ventilation to maintain air pollution below the exposure limits when generating dust, fumes, or mists during**
- ▶ **Install face washing facilities and safety showers in facilities that store or use this substance.**

C. Personal protective equipment:

- ▶ **Wear a respirator that has been certified by the Korea Occupational safety and Health Agency in accordance with the physical and chemical characteristics of the substance to be exposed.**

SECTION 9 Physical and Chemical Properties

A. Appearance: paste	K. Vapor pressure: No data
B. Odor: No data	L. Solubility: No data
C. Odor threshold: No data	M. Vapor density: No data
D. pH : No data	N. Specific gravity: No data
E. Melding point / Freezing point: No data	O. N-octanol/water partition coefficient: No data
F. Boiling point / Boiling point range: No data	P. Autoignition temperature: No data
G. Flash point: No data	Q. Decomposition temperature: No data
H. Evaporation rate: No data	R. Viscosity: No data
I. Flammability (solid, gas): No data	S. Molecular weight: No data.

J. Upper/Lower limit of flammability or : No data	

SECTION 10 Stability and Reactivity

A. Chemical stability and potential for hazardous reactions

- **Some can burn but don't ignite easily.**
- **Non-flammable; the substance itself does not burn, but it may decompose when heated and generate corrosive/toxic fume.**

B. Condition(s) to avoid

- **Heat, sparks, flames, or other sources of ignition**

C. Substance(s) to avoid

- **Flammable substances, irritant and toxic gases**

D. Hazardous substance(s) produced during decomposition

- **Corrosive/toxic fumes**

SECTION 11 Toxicological Information

A. Information about the highly possible exposure routes

- **No data**

B. Information on health hazard

Acute toxicity	No data
Oral	Siloxanes and Silicones, di-Me, hydroxy-terminated : LD50 15400mg/kg (Rat) 2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime) : LD50 2260㎎/kg bw (Rat) Propiconazole : LD50 1517㎎/kg bw (Rat) Aquafil : LD50 3160mg/kg (Rat) Polydimethylsiloxanes : LD50 17gm/kg (Rat) Aminoethyl-aminopropyl-trimethoxysilane : LD50 1897㎎/kg bw (Rat)
Percutaneous	Siloxanes and Silicones, di-Me, hydroxy-terminated : LD50 16ml/kg (Rat) Propiconazole : LD50 4gm/kg bw (Rat) Polydimethylsiloxanes : LD50 2gm/kg (Rat) Aminoethyl-aminopropyl-trimethoxysilane : LD50 16ml/kg bw (Rat)
Inhalation	Siloxanes and Silicones, di-Me, hydroxy-terminated : LC50 > 8750㎎/㎏ Rat Propiconazole : LC50 1264mg/m3 (Rat)
Skin corrosion or irritation	No data
Severe eye damage or irritation	No data
Respiratory oversensitivity	No data
Skin oversensitivity	No data
Carcinogenicity	No data
Occupational Safety and Health Act	No data
Notification of the Ministry of Employment and Labor	No data
IARC	No data
OSHA	No data
ACGIH	No data
NTP	No data
EU CLP	No data
Germ cell mutagenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity (single exposure)	No data
Specific target organ toxicity (repeated exposure)	No data
Inhalation hazard	No data

SECTION 12 Environmental Impact

Ecotoxicity	No data
Fishes	2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime) : LC50 48 ㎎/L (96h) Aminoethyl-aminopropyl-trimethoxysilane : LC50 597mg/L (96h)
Shellfishes	2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime) : EC50 201mg/L (48h) Aminoethyl-aminopropyl-trimethoxysilane : EC50 81mg/L (48h)
Birds	2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime) : NOEC 1mg/L (72h) Aminoethyl-aminopropyl-trimethoxysilane : NOEC 1.6mg/L (96h)

Persistence and Degradability	2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime) : 0.59~0.65(20 ℃) Propiconazole : 3.72 logPow(logP)
Persistence	No data
Degradability	No data
Bioaccumulation	2-Butanone, 2,2',2''- (O,O',O'' (methylsilylidyne)trioxime) : 0.5BCF
Accumulation	No data
Biodegradability	No data
Soil mobility	No data
Other harmful impact	No data

SECTION 13 Disposal Consideration

A. Disposal method

- **Dispose of the contents and container according to the regulations if specified in the Wastes Control Act.**

B. Precautions for Disposal

- **Dispose of the contents container (in accordance with the provisions specified in the relevant regulations).**

SECTION 14 Information Required for Transportation

A. Classification and regulations in accordance with the regulations for the maritime transportation and storage of dangerous substances under the Ship Safety Act:

- **Maritime and Air Transport Act**

B. Transportation precautions:

- **Transport in a completely sealed state, but in case of leakage, prevent the inflow into drains/sewers/rivers/streams.**

C. Classification and regulations based on transportation guidelines in other countries:

- **UN class: No data.**
- **USDOT: No data.**
- **RID/ADR: No data.**
- **IMO: No data.**
- **IATA/ICAO : No data.**

SECTION 15 Legal Regulations Status

Regulation by Occupational Safety and Health Act	▶ Aquafil : Substances subject to special inspection Substances subject to workplace environmental monitoring Substances with established exposure limits
Regulation by Chemical Substances Management Act	No data
Regulation by Hazardous Goods Safety Management Act	No data
Regulation by Waste Management Act	No data
Regulation by Other Domestic and Foreign Laws	No data
- Domestic Regulation	No data
Persistent Organic Pollutant Management Act	No data
- Overseas regulations	No data
U.S. Management Information (OSHA Regulation)	No data
U.S. Management Information (CERCLA Regulation)	No data
U.S. Management Information (EPCRA 302 Regulation)	No data
U.S. Management Information (EPCRA 304 Regulation)	No data
U.S. Management Information (EPCRA 313 Regulation)	No data
U.S. Management Information (Rotterdam Convention Substances)	No data
U.S. Management Information (Stockholm Convention Substances)	No data
U.S. Management Information (Montreal Protocol Substances)	No data
EU Classification Information (Determinate Classification Result)	No data

EU Classification Information (Danger phrase)	No data
EU Classification Information (Safety phrase)	No data

SECTION 16 Other References

A. Data sources

No data.

B. Date of the initial preparation: 16/10/2020

C. Number of revisions and the date of the last revision

Number of revisions: 4

Date of the last revision: 09/06/24

D. Others

*The prepared Material Safety Data Sheet is edited and partially modified with referring to the MSDS provided by the Korea Occupational Safety and Health Agency.

*The data is prepared based on the MSDS of raw materials received from each company of raw materials.