Material Safety Data Sheet

CERAFIX PLUS

SSANGKOM PTY LTD

Version: 2

Issue Date: **20/05/2022**

Revision Date: **09/10/2024**

SECTION 1 Chemical Product and Company Identification

Product Identification

Product name	CERAFIX PLUS
Use of Product	Adhesive and sealant

Company Identification

Registered company name	SSANGKOM PTY LTD
Address	29 Annie Street, Coopers Plains QLD 4108
Department	Technical Research Institute
Website	www.ssangkom.com.au

Emergency telephone number

For Korea	82-31-768-3030 / 82-80-768-3030
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 2
Serious Eye Damage	Category 2B

B. Warning Signs Elements including Precaution Phrase

▶ **Pictograph:**

▶ **Signal word: Warning**

▶ **Hazard and risk statements:**

H315 Causes skin irritation.

H320: Causes eye irritation

▶ **Precautionary statement(s) Prevention**

P264: Thoroughly wash the contact body part after handling.

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.

P321: Take emergency measures.

P332+P313: If skin irritation occurs: Seek medical attention/advice.

P337+P313: If eye irritation occurs: Seek medical attention/advice.

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

▶ **Precautionary statement(s) Storage**

NONE03: Not applicable

▶ **Precautionary statement(s) Disposal**

NONE04: Not applicable

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

No Data

SECTION 3 Composition Name and Content

Name	CAS No.	Content (%)	Remarks
Water	7732-18-5	20-30	
2-Propenoic acid, butyl ester, polymer with ethenylbenzene	25767-47-9	10-25	
Lime stone	1317-65-3	20-30	
Dolomite	16389-88-1	15-25	
2-Propenoic acid, butyl ester, polymer with 2-ethylhexyl 2- propenoate	26760-85-0	1-5	
Acrylamide/sodium acrylate copolymer	25085-02-3	1-2	

SECTION 4 First Aid Measures

A. When it gets into your eyes:

- If in contact with the substance, immediately flush the eyes with running water for at least 20 minutes.
- If possible, remove contact lenses. Keep washing up.
- If eye irritation persists, seek medical attention/advice

B. When it comes into contact with your skin:

- If skin irritation occurs, seek medical attention/advice.
- Remove contaminated clothing and launder before reuse.
- 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:

- If you feel unwell, seek medical attention/advice.
- 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 you feel unwell, seek medical attention/advice.
- If someone has ingested or inhaled the substance, don't perform mouth-to-mouth resuscitation. Instead, use appropriate respiratory medical equipment.

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:

- Small fires: Dry sand, dry chemical, alcohol resistant foam, water spray, normal foam, CO_2 (appropriate extinguishing agent)
- Large fires: Water spray/fog, normal foam (appropriate extinguishing agent)
- High pressure water injection (inappropriate extinguishing agent)

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:

- Hazards upon contact: May cause burns to skin and eyes upon contact.
- Tank fires: For large-scale fires, use unmanned firefighting equipment. If this is not feasible, retreat and allow the fire to burn out.
- Cooling containers: After extinguishing the fire, use large amounts of water to cool the containers.
- Containment: Dig trenches to collect firefighting water and prevent the spread of the substance.
- Leakage: Spilled material may cause contamination.
- Transportation: Some substances may be transported at high temperatures or in molten form. Exercise caution.
- Rescue operations: Rescuers must wear appropriate protective equipment.
- Safe distance: Extinguish fires while maintaining a safe distance from the area.

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.**
- **Remove airborne dust and moisten it with water to prevent it from scattering**
- **For solid spills: Use a clean shovel to place the spilled material into a clean, dry container. Loosely seal the container and move it away from the spill area.**
- **For powder spills: Cover the spill with a plastic sheet to prevent spreading and keep it dry.**
- **For liquid spills: Absorb the liquid, then clean the contaminated area with detergent and water.**
- **Absorption: Cover or absorb the spill with dry sand, soil, or other non-combustible materials, and transfer it to an appropriate container.**
- **Small spills:**
  - **Absorb with sand or non-combustible materials and place into a container.**
  - **Alternatively, wash the contaminated area thoroughly with large amounts of water.**
- **Large spills:**
  - **Divert liquid spills away from critical areas by digging trenches.**
- **Absorb the spill with inert materials (e.g., dry sand or soil) and transfer it to a chemical waste container.**

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	▶ Avoid incompatible substances and conditions: Be aware of and avoid exposure to materials or conditions that may cause hazardous reactions. ▶ Storage environment: Store in a cool, dry location to maintain product stability and minimize risks. ▶ Handling empty containers: Completely drain empty drums, seal them properly, and promptly return them to the drum regulator or dispose of them appropriately. ▶ Sealed storage: Keep the material in a tightly sealed container to prevent contamination and leaks.

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
Water	No data	No data	No data
2-Propenoic acid, butyl ester, polymer with ethenylbenzene	No data	No data	No data
Lime stone	TWA - 10 mg/㎥	No data	No data
Dolomite	No data	No data	No data
2-Propenoic acid, butyl ester, polymer with 2-ethylhexyl 2- propenoate	No data	No data	No data
Acrylamide/sodium acrylate copolymer	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:

Calcium Carbonate

- **Respiratory Protection:**
  - **Wear a respirator certified by the Occupational Safety and Health Agency (KOSHA) that is suitable for the physical and chemical properties of the substance being handled.**
- **Eye Protection:**
  - **Install eye-wash stations and emergency shower facilities near the work area.**
  - **Use chemical-resistant goggles and face shields for comprehensive eye and face protection.**
- **Hand Protection:**

- Wear gloves made of chemically resistant materials appropriate for the substance to prevent skin exposure.

► Body Protection:

- Use chemical-resistant protective clothing to shield the body from potential exposure.

SECTION 9 Physical and Chemical Properties

A. Appearance: Liquid, Color: White	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 : 7 - 10	N. Specific gravity: 1.35-1.50
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: 200 million to 300 million cps
I. Flammability (solid, gas): No data	S. Molecular weight: No data.
J. Upper/Lower limit of flammability or explosive range: No data	

SECTION 10 Stability and Reactivity

A. Chemical Stability and Possibility of Hazardous Reactions:

- Fire hazards: May produce irritating and toxic gases when exposed to fire.
- Fire hazards: May also release irritating, corrosive, and toxic gases.
- Heating hazards: Containers may explode when exposed to high temperatures.
- Flammability: Some substances can ignite but are not easily flammable.
- Non-flammable: The substance itself is not flammable, but heating can lead to decomposition, which may generate corrosive and toxic fumes.

B. Conditions to Avoid (e.g., static discharge, impact, vibration):

- Ignition sources such as heat, sparks, flames, and other sources of ignition should be avoided.

C. Incompatible Materials:

- Avoid flammable materials and reducing agents.

D. Hazardous Decomposition Products:

- Burning: Thermal decomposition or combustion can release irritating and highly toxic gases.
- Corrosive/toxic fumes may be generated.
- Irritating, corrosive, and toxic gases may be emitted during decomposition or combustion.

SECTION 11 Toxicological Information

A. Information about the highly possible exposure routes

No data

B. Information on health hazard

Acute toxicity	No data
Oral	Water: LD >90ml/kg rat
Percutaneous	No data
Inhalation	No data
Skin corrosion or irritation	No data
Severe eye damage or irritation	No data
Respiratory 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	
Fishes	No data
Shellfishes	No data
Birds	No data
Persistence and Degradability	
Persistence	No data
Degradability	No data
Bioaccumulation	No data
Accumulation	No data
Biodegradability	No data
Soil mobility	No data
Other harmful impact	No data

SECTION 13 Disposal Consideration

- **Disposal Method:**
  - **Dispose of in accordance with environmental regulations and standards.**
- **Precautions for Disposal (including disposal of contaminated containers and packaging):**
  - **Do not release into drains, sewers, or rivers.**

SECTION 14 Information Required for Transportation

A. UN number (UN No.)	No data
B. Proper shipping name	No data
C. Dangerousness class in transport	No data
D. Container class	No data
E. Marine pollutants	No data
F. Special safety measures that users need or need to know about transportation or means of transportation	No data
G. Emergency measures in case of a spill	Do not discharge into drains, sewers, or rivers

SECTION 15 Legal Regulations Status

Regulation by Occupational Safety and Health Act	No data
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
Persistent Organic Pollutant Management Act	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: 20/05/2022

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

Number of revisions: 2

Date of the last revision: 09/10/2024

D. Others

*This MSDS refers to the data from the Occupational Safety & Health Agency, National Institute of Environmental Research, National Institute of Food and Drug Safety Evaluation, the U.S. Department of Health and Human Services, the U.S.Environmental Protection Agency, and the European Chemicals Agency

.