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SPLICE SLEEVE JAPAN, LTD.

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SAFETY DATA SHEET

1. Chemical Product and Company Identification

- ① Product name: SS mortar / SS mortar 120N
- ② Company name: Splice Sleeve Japan, Ltd.
- ③ Address : 17-1 Nihonbashi-Hakozaeki-cho, Chuo-Ku, Tokyo 103-8338, Japan
- ④ Name of department : Engineering Department
- ⑤ Person in charge : Director of Engineering Department
- ⑥ Phone number : +81-3-5642-6120
- ⑦ Fax number : +81-3-5642-6150
- ⑧ Emergency information: Splice Sleeve Japan, Ltd.
(PHONE NUMBER: +81-3-5642-6120)
- ⑨ Recommended use and restriction : For building material, civil engineering, construction
- ⑩ Reference no. : C22-1 / C59

2. Hazards Identification

- ① GHS classification
 - ①-1 Physical and chemical hazards : Not applicable
 - ①-2 Health hazards
 - Skin corrosion/irritation Category 2 [H315]
 - Skin sensitization Category 1 [H317]
 - Serious eye damage/irritation Category 1 [H318]
 - Specific target organ/Systemic toxicity (Single exposure) Category 3
(Respiratory tract irritation) [H335]
 - ①-3 Environmental hazards : Classification not possible
- ② GHS label elements
 - ②-1 Pictograms



 - ②-2 Signal words : Danger
 - ②-3 Hazard statements
 - Skin corrosion/irritation [H315]

- May cause an allergic skin reaction [H317]
- Causes serious eye damage [H318]
- May cause respiratory irritation [H335]

②-4 Precautionary statements

[Prevention]

- Do not breathe dusts/mists.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Contaminated work clothing should not be allowed out of the workplace.

[Response]

- IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor.
- IF ON SKIN (or hair) : Wash with plenty of water and soap. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse.
- IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
- IF SWALLOWED : Call a doctor if you feel unwell.

[Storage]

- Store locked up.
- Keep container tightly closed. Store in a well-ventilated place.

[Disposal]

- Dispose of contents/container in accordance with relevant laws and local regulation.

③ Other hazards which do not result in GHS classification :

- If it comes into contact with water, it generates calcium hydroxide and becomes alkaline (pH 11~13). Since it is irritating to eyes, nose, skin, it can cause inflammation in mucous membrane of eyes, internal tissues of nose, skin. If swallowed, it is irritating to throat.

④ Important signs : None.

⑤ Expected emergency overview :

- If discharged into water at high concentration, it can be assumed that it is hazardous to the aquatic life. (Increase in hydroxide ion concentration [pH])

⑥ National/local information : None.

3. Composition/Information on Ingredients

Single chemical substance/mixture : Mixture

Chemical name	Content (%)	CAS No.
Portland cement	30-50	65997-15-1
Calcium aluminate sulfate	< 3	12005-25-3
Silica fume	2-8	69012-64-2
Ferrochromium slag (Aggregate)	40-60	69012-27-7
Additive	< 5	Nondisclosure

- There is a possibility that calcium oxide (maximum of 2%) would be contained in portland cement.

- Industrial Safety and Health Act : Article 57-2 of the Act, paragraph 1 (Notifiable substances no.190 Calcium oxide)

Chemical formula: CaO Chemical Substances Control Law No.:1-189 CAS No.:1305-78-8

[PRTR Act : Not applicable][Industrial Safety and Health Act: Calcium oxide] [Poisonous and Deleterious Substances Control Act : Not applicable]

4. First-aid Measures

- ① If inhaled :
 - Remove victim to fresh air and keep at rest. Immediately get medical attention.
 - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - If experiencing respiratory symptoms : Call a doctor.
 - ② If on skin :
 - Remove/Take off immediately all contaminated clothing. Rinse skin with running water/shower.
 - Wash with plenty of clean water and soap.
 - Wash contaminated clothing before reuse.
 - ③ If in eyes :
 - Rinse eyes with clean water for at least 15 minutes and immediately get medical attention from an ophthalmologist.
 - Hold eyelids open and away from eyeballs with fingers to ensure that all surfaces are flushed thoroughly.
 - Remove contact lenses, if present and easy to do and rinse eyes.
 - ④ If swallowed :
 - Rinse mouth.
 - Rinse mouth with clean water and give 1-2 glasses of clean water or milk.
 - Immediately get medical attention.
 - Don't induce vomiting.
 - Never give anything by mouth to an unconscious person.
 - If skin irritation or rash occurs, get medical advice/attention.
 - ⑤ Most important sign and symptom : Not specified.
 - ⑥ Protection for first-aiders :
 - Wear protective equipment such as rubber gloves and fully enclosed goggles, etc.
 - ⑦ Special note to physician : Not specified.
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5. Fire Fighting Measures

- ① Extinguishing media :
 - The product itself doesn't burn.
 - ② Unsuitable extinguishing media : Not specified.
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6. Accidental Release Measures

- ① Personal precautions, protective equipment and emergency procedures :

- Make sure to wear protective equipment such as protective gloves, long boots, safety glasses, dust mask, etc. during work.
 - When spilled in large quantities, evacuate personnel safely.
 - ② Precautions for the environment :
 - Do not discharge into rivers or sewers directly.
 - ③ Method for containment and clean-up :
 - Shovel or sweep the leakage and collect into empty container such as bag, etc.
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7. Handling and Storage

- ① Handling :
 - ①-1 Technical measure :
 - Use in a well-ventilated area.
 - Provide sufficient ventilation in a workplace.
 - Provide eye wash facilities and safety shower for emergency near the workplace where the product is handled.
 - Do not breathe scattered dust.
 - For outdoor use, work from windward as far as possible.
 - Prohibit unnecessary personnel from entering a handling place.
 - Do not get in eyes, on skin, or on clothing.
 - Provide bathroom, eye wash facilities, etc. in a breathing place and wash hands, face, etc. thoroughly after handling.
 - Do not bring contaminated protective equipment such as gloves, etc. into resting place.
 - Do not eat, drink or smoke except at designated area.
 - Wear protective equipment (Protective gloves, long boots, safety glasses, dust masks, etc) to avoid prolonged or repeated contact with skin, etc.
 - Wash hands and face thoroughly and gargle after handling.
 - ①-2 Local exhaust • general ventilation :
 - For handling, provide local exhaust or general ventilation as much as possible.
 - ①-3 Precaution :
 - Handle with care to prevent generation of dust.
 - Wash face, hands, mouth, etc. thoroughly after handling. Wash contaminated clothing before reuse. Do not handle in a violent manner to prevent a bag from getting torn, etc.
 - If it is transferred as a flexible container by hanging, never stay under it.
 - ①-4 Precaution for safe handling :
 - Since it is alkaline, avoid contact with acidic products (Hydrochloric acid, sulfuric acid, nitric acid, etc.)
- ② Storage :
 - ②-1 Proper storage condition :
 - Avoid direct sunlight, water leak, humidity, heat to prevent decomposition. Store at room temperature.
 - Do not store with acidic materials in the same place.
 - Store locked up.
 - Keep container tightly closed. Store in a well-ventilated place.

- ②-2 Safe container and packaging material : Bags or containers that can be sealable for moisture proof
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8. Exposure Controls and Personal Protective Equipment

- ① Engineering controls :
- Provide ventilation and local dust collection in the place where ventilation is insufficient such as indoor place, etc.
 - Provide eye wash facilities and safety shower near the workplace where the product is handled.
- ② Controlled exposure level :
- Industrial Safety and Health Act • Evaluation Standard on Working Environment 2.9 mg/m³
 - Put labels on containers, etc. which are handled by workers.
- ③ Permissible exposure level :
- Portland cement
 - The Japan Society for Occupational Health (2014 edition) :

Type II dust	1 [mg/m ³] (Respirable dust)
	4 [mg/m ³] (Total dust)
 - OSHA PEL : General Industry :50[mppcf] TWA (Respirable Fraction)
 - ACGIH (2010 edition) : TLV: 1[mg/m³] TWA
- ④ Personal protective equipment :
- ④-1 Respiratory protection : Dust mask <T 8151>, handy dust mask
- ④-2 Hand protection : Protective gloves made of rubber (Please do not use natural rubber gloves in case of having latex allergy.)
- ④-3 Eye protection : Safety glasses <T 8147> (Fully enclosed goggles)
- ④-4 Skin and body protection : Protective clothing (long-sleeves), safety boots (Rubber long boots)
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9. Physical and Chemical Properties

- ① Appearance
- Physical state
 - Form : Powder
 - Color : Gray
- ② Odor : Odorless
- ③ pH : 11~13 in contact with water
- ④ Melting point/freezing point : No data
- ⑤ Boiling point, initial boiling point and boiling range : No data
- ⑥ Flash point : Not relevant
- ⑦ Auto-ignition temperature : No data
- ⑧ Flammability : Nonflammable
- ⑨ Explosive limits : Lower : Not relevant, Upper : Not relevant
- ⑩ Vapor pressure : Not relevant
- ⑪ Vapor density : Not relevant
- ⑫ Evaporation rate : Not relevant
- ⑬ Specific gravity (Relative density) : 2.70~3.20 g/cm³ (20°C)

- ⑭ Solubility : Hardly soluble in water
 - ⑮ Partition coefficient(n-octanol/water) : log Pow = No data
 - ⑯ Decomposition temperature : No data
 - ⑰ Other data : None
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10. Stability and Reactivity

- ① Stability :
 - Stable under normal condition
 - ② Possibility of hazardous reactions :
 - It is solidified by reacting with water.
 - ③ Conditions to avoid :
 - Since it absorbs moisture, do not leave it in the environment with high humidity for long time.
 - ④ Incompatible materials : No data.
 - ⑤ Hazardous decomposition products : It's not generated.
 - ⑥ Others : None.
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11. Toxicological Information

- ① Acute toxicity : No data.
 - ② Skin corrosion/irritation :
 - Classification of portland cement is classified as "Category 2". (Causes skin irritation [H315])
 - ③ Serious eye damage/eye irritation :
 - Classification of portland cement is classified as "Category 1". (Causes serious eye damage [H318])
 - ④ Respiratory or skin sensitization :
 - Classification of portland cement and calcium aluminate sulfate as components are both classified as "Category 1". (May cause an allergic skin reaction [H317])
 - It contains infinitesimal amount of chromium compounds, there is a possibility that the allergy occurs if the person is hypersensitive to hexavalent chromium.
 - ⑤ Germ cell mutagenicity : No data.
 - ⑥ Carcinogenicity : No data.
 - ⑦ Reproductive toxicity : No data.
 - ⑧ Specific target organ/ Systemic toxicity (Single exposure) :
 - Classification of portland cement is classified as "Category 3". (May cause respiratory irritation [H335])
 - ⑨ Specific target organ/ Systemic toxicity (Repeated exposure) : No data.
 - ⑩ Aspiration hazard : No data.
 - ⑪ Other data : Be careful since it would have alkaline property by contacting with water.
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12. Effects on the Environment

- ① Ecotoxicity : No data.
- ② Persistence/degradability : No data.

- ③ Bio-accumulation : No data.
 - ④ Mobility in soil :
 - It can move to the air, waters (Water, sediment), soil environment based on physico-chemical properties.
 - ⑤ Other adverse effect : No data.
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13. Precautions for Disposal

- Dispose of contents/container in accordance with relevant laws and local regulation.
 - Dispose of the product (Powder) in accordance with treatment standard for sludge under the Waste Management and Public Cleansing Act. Dispose of hardened objects in accordance with treatment standard for construction wastes under the Waste Management and Public Cleansing Act. Dispose of cleaning water in accordance with the Water Pollution Control Act.
 - When disposing the container, similar to residual waste, entrust disposal to industrial waste disposal contractor who have obtained a license from prefectural governor same as residual wastes.
 - If outsourcing, entrust disposal to industrial waste disposal contractor who have obtained a license from prefectural governor.
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14. Transport Information

- ① International regulation :
 - ①-1 UN number : Not applicable
 - ①-2 Proper shipping name : Not applicable
 - ①-3 UN class : Not applicable
 - ①-4 Packing group : Not applicable
 - ①-5 Marine pollutant : Not applicable
 - ② Japan domestic regulation :
 - Inland transport :
 - Fire Service Act : Not applicable
 - Poisonous and Deleterious Substances Control Act : Not applicable
 - Sea transport :
 - Ship Safety Act : Not applicable
 - Air transport :
 - Civil Aeronautics Act : Not applicable
 - ③ Specific safety measure and condition of transport :
 - Load containers in a way of no overturning, falling, damage and secure prevention of cargo collapse.
 - Caution: water leak.
 - ④ Guideline no. of first-aid measures during emergency : None.
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15. Regulatory Information

- ① Industrial Safety and Health Act :

- Ordinance on Prevention of Hazards Due to Dust, Article 2 Work generating dust
 - Article 57-2 of the Act, Notifiable substances (Calcium oxide no.190)
 - ② Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof : Not applicable
 - ③ Poisonous and Deleterious Substances Control Act : Not applicable
 - ④ Fire Service Act : Not applicable
 - ⑤ Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (Kashinho) :
 - General substance applicable to Article 8, Paragraph 1, Item 3
 - ⑥ Ship Safety Act : Not applicable
 - ⑦ Civil Aeronautics Act : Not applicable
 - ⑧ Marine Pollution Prevention Law : Not applicable
 - ⑨ Refer to "Regulation of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP)".
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16. Other Information

- 1) This information contained herein is correct to the best of our knowledge. However, it is not absolutely accurate and not perfectly includes all data.
- 2) The information contained herein relates only to the material, the product and is not valid if the product is mixed with or treated by other materials.
- 3) Especially, do not use it for medical purpose.
- 4) It is the user's responsibility to handle the product properly and make the information contained herein completely for his application.
- 5) All materials may be present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
- 6) Please perform tests prior to use and confirm suitability and safety for your application under your responsibility.
- 7) Please excuse it as the information contained herein may be revised based on new knowledge without prior notice.