

Safety Data Sheet SMARTSTICK

1. Identification of the substance or mixture and company responsible for product identification manufacturing / marketing:

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1.1 Identification

SMARTSTICK

1.2 Forms of use

Use: Fixing liquid to improve the adhesion of parts manufactured by 3D printing with the manufacturing base.

1.3 Company



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SMARTFIL® by Smart Materials 3D

1.3 Emergency phone: 112

2. Hazards identification

2.1 Classification

- Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.
- Classification according to the directive 67/548/CEE or Directive 1999/45/CE: Not classified.
- Classification System: Not required to identify the product according to the calculation procedure in the latest valid version of the "General Classification guideline for preparations of the EU"

2.2 Label elements

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture: Not classified.

GHS label elements

Signal word: No signal words.
Hazard statements: No known significant effects or critical hazards

Precautionary statements

Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.
Hazards not otherwise Classified: None known.

3. Composition

Substance/mixture: Mixture
Other means of identification: Not available
CAS number: Not applicable

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4. First aids:

4.1 Description of First Aids

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed.

There is not relevant information available.

4.3. Indication of immediate medical attention and special treatment needed immediately

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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5. Firefighting measures:

5.1 Suitable extinguishing media

Any method is applicable

5.2. Unsuitable extinguishing media for safety reasons

None known.

5.3 Special hazards arising from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5.4 Advice for firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

6. Measures in case of accidental release

6.1 Personal precautions,

For non-emergency Personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

6.2 Environmental cautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up:

Absorb with an inert dry material and place in an appropriate waste disposal container.

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7. Handling and Storage:

7.1. Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 to 40°C (41 to 104°F). Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in original container, protected from direct sunlight.

8. Exposure controls / personal protection

Additional information about design of technical facilities:
No additional data, consult section 7.



8.1 Control parameters

Components with admissible limit values that require monitoring at the workplace: Do not exceed the values for dust concentration.

Additional information: Based on references valid at the time of processing

8.2 Personal protection equipment.

General safety and hygiene:

- Keep away from foodstuffs, beverages, and food.
- Do not eat, drink, smoke, or sniff snuff during work.
- Do not breathe dust / smoke / mist.
- Avoid contact with eyes and skin.
- Wash hands before breaks and after work.

Breathing equipment:

- Surely concentrations below the value of the CMA does not require special measures.

Protection of hands:

- For use of chemical protective gloves is required.
- For handling product, I heat / cast heat resistant gloves.

Eye protection:

- Protection glasses

Body protection:

- For handling, hot / molten heat resistant protective clothing product.

9. Fisical and chemical properties:

- A. Physical state: Liquid.
- B. Color: Blue to white.
- C. Odor: Ammonia.
- D. Odor threshod: Not available.
- E. Ph: 7.9 a 8.5
- F. Melting point: Not available.
- G. Boiling point: 100°C
- I. Vapor pressure: 2.3 kPa
- J. Reative Density: 1.02
- K. Density(g/cm³): 1.02
- L. Solubility: Partially soluble in water.

10. Stability and reactivity

10.1 Reactivity

Non-applicable

10.2 Chemical stability

The product is stable.

10.3 Possibility of dangerous reactions.

Non-applicable.

10.4 Conditions to be avoided

No further relevant information.

10.5 Incompatible materials

No further relevant information.

10.6 Strong decomposition products

No further relevant information.

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11. Toxicological Information

11.1 Information on toxicological effects

Not available.

12. Ecological information

12.1 Ecotoxicity

Not available.

13 Disposal considerations

13.1 Methods for treating waste

Recommendation: Disposal according to official regulations.

European waste catalog (EWC):

Allocation of waste codes according to the European waste list depends on the source generating the waste.

Contaminated packaging:

Recommendation: Disposal according to official regulations.

14 Transport information

Not regulated.

15 Regulatory information

Not regulated.

16 Other information

The data is based on the current state of knowledge, but it is not a guarantee of the product features and it is not legally valid in a contractual relationship.