

MATERIAL SAFETY DATA SHEET (SDS)

Issued date: February 27, 2020

1. Identification of the substance/ mixture and of the company/ undertaking

Product identifier: STAEDTLER Blue Glue Stick (Glue Stick)
Item no.:35g
Manufacturer/Supplier: YAMATO Co., Ltd.
Address: 9-10, Ohdenmacho, Nihonbashi, Chuoku, Tokyo, 103-8571, JAPAN
Name of section: R&D Dept.
Phone no.: +81-3-3662-7031
FAX no.: +81-3-3662-8817
Emergency phone no.: +81-3-3662-7424
Recommended use of product and restrictions on use: Adhesive

2. Hazards Identification

< Identification >

【Physical Hazards】

Spontaneous combustion: Not classified
Other hazards: Not applied in the classification

【Health Hazards】

Acute toxicity: Classification not possible
Skin corrosion/irritation: Classification not possible
Serious eye damage/eye irritation: Classification not possible
Respiratory sensitization or skin sensitization: Classification not possible
Germ cell mutagenicity: Classification not possible
Carcinogenicity: Classification not possible
Reproductive toxicity: Classification not possible
Specific target organ toxicity – Single exposure: Classification not possible
Specific target organ toxicity – Repeated exposure: Classification not possible
Aspiration hazard: Classification not possible

【Environmental Hazards】

Hazardous to the aquatic environment: Classification not possible
Hazardous to the ozone layer: Classification not possible

< Label element >

【Hazard Pictograms】 Not applicable
【Signal word】 Not applicable
【Hazard statements】 Not applicable
【Precautionary statements】 Not applicable

3. Composition/ Information on ingredients

Substance/Mixture: Mixture

Ingredients and composition:

| Chemical name | Composition (wt. %) | CAS No. | Function |
|-----------------------------------|---------------------|------------|---|
| Polyvinyl Pyrrolidone | 10.0~15.0 | 9003-39-8 | Acts as an adhesive in glue stick |
| Natural Polymer | 10.0~15.0 | — | Acts as an expander of glue and adhesion auxiliary. |
| Sodium Stearate /Sodium Palmitate | 4.0~5.0 | 68424-38-4 | Acts as a harden agent of glue. |
| Propylene Glycol | 5.0~8.0 | 57-55-6 | Keeps dried glue somewhat moist and flexible |
| Glycerin | 7.0~10.0 | 56-81-5 | Acts as a plasticizer. It keeps the glue soft and flexible (once heated up again) |
| Water | 55~68 | 7732-18-5 | Facilitates spreading adhesive. |
| Thymolphthalein | 0.03~0.05 | 125-20-2 | Acts as a color grant and disappear ability. |
| Others (Preservatives, etc.) | < 1.0 | — | Acts as a preservation and PH conditioning agent of glue. |

4. First - Aid Measures

Inhalation: No significant effects for normal use, however, in case some symptom occurs, remove person to the place with fresh air immediately.

Skin contact: No significant effects for normal use, however, in case some symptom occurs, wash the affected area with plenty of water or mild soap. If irritation is continued, refer to medical attention.

Eye contact: Gently rinse the affected eye with clean water for at least 15 minutes lifting upper and lower eyelids occasionally. If irritation is continued, refer to medical attention immediately.

Ingestion: Clean up in the mouth well with water and refer to medical attention immediately. Do not induce vomiting. Never give anything to someone who is unconscious.

5. Fire - Fighting Measures

Suitable extinguishing media: Dry chemical powder, carbon dioxide, foam, water spray and dry sand.

Unsuitable extinguishing media: None

Specific hazards regarding with fire-fighting measure: None

Specific methods to do extinguishment: None

Protective equipment: Protective gloves, protective goggles, protective clothing, self-contained respiratory protective device

6. Accidental Release Measures

Personal precautions: Wash away with plenty of water or soap water for skin contact.

Environmental precautions: Do not wash away into sewer, watercourse or river.

Methods and materials for containment and cleaning up:

- Absorb spills with inert materials(e.g. waste cloth), and then, wipe off residual spill by using paper.

7. Handling and Storage

Handling:

- Avoid release of this material into sewer or drainage.
- Avoid contact and inhalation of this material.
- Incompatibilities: oxidizing materials, strong acid and strong alkali, water.

Storage:

- Keep containers tightly closed and store in a cool, dark, well-ventilated location.
- Keep away from heat, flame, ignition source, sunlight and under freezing point.

8. Exposure Controls / Personal Protection

Control parameters: ACGIH (TLV): Not established

Measurement of facilities: Not required

Personal protection equipment:

- Respiratory protection: No special protection required
- Eye protection: No special protection required
- Hand, skin and body protection: No special protection required

9. Physical and Chemical Properties

Appearance: Blue solid (Product)

Odor: Characteristic (Product)

Melting point: around 60°C (Product)

Flash point: No data available (Product)

Explosive limits: Product does not present an explosion hazard. (Product)

Vapor pressure: No data available (Product)

Relative density: 1.08 (Product)

Auto-ignition temperature: product is not self-igniting. (Product)

(Other information)

Solubility in water: Fully miscible (Product)

pH: 10.0-11.0 (10% Aqueous Solution)

10. Stability and Reactivity

Reactivity: No appreciable reactivity

Chemical stability: Stable under normal condition and anticipated storage.

Possibility of hazardous reactions: No dangerous reaction known. Will not occur.

Conditions to avoid: Heat, flame, ignition source, sunlight and under freezing point.

Incompatible materials: Strong oxidizing agents, strong acids and strong alkali

Hazardous decomposition products: No dangerous decomposition known.

11. Toxicological Information

Acute toxicity: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available

Respiratory sensitization or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity – Single exposure: No data available

Specific target organ toxicity – Repeated exposure: No data available

Aspiration hazard: No data available

Acute overexposure: LD₅₀ > 3000mg/kg (rat)

12. Ecological Information

Hazardous to the aquatic environment: No data available

Biodegradability: No data available

Bioaccumulation: No data available

Hazardous to the ozone layer: No data available

13. Disposal Consideration

Information on their safe handling of disposal:

- Do not dump into sewers, on the ground or into any body of water.

Appropriate methods of disposal:

- Follow all regulation in your country or region.

14. Transport Information

UN Class: Not applicable

UN Number: Not applicable

Any especial precaution on the transport or conveyance:

- Keep away from oxidizing materials and source of ignition.
- Avoid direct sunlight and confirm no leaking from containers.
- Load the cargos steadily without fall, collapse or damage.
- Follow all regulation on the transport in your country or region.

15. Regulatory Information

Occupational Health and Safety Law: Not applicable

Fire Defense Law: Not applicable

Law of pollutant Release and Transfer Register (PRTR): Not applicable

Others: Not applicable

- Regulatory information with regard to this preparation in your country or region should be examined by your own responsibility.

16. Other Information

Require careful handling since the hazardous evaluation of this information herein is not enough. The information is the best of our knowledge and is only related to this specific product. No warranty, either expressed or implied, is made with respect to such information.

The recommended handling procedures are believed to be generally applicable. However, it is user's responsibility to review these recommendations in the specific content of the intended use.

We reserve the right to revise this SDS as new information become available without notice.

(Reference)

- JIS Z 7253:2012(Hazard Communication of chemicals based on GHS- Labelling and Safety Data Sheet(SDS))

- JIS Z 7252:2014(Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)")