

SAFETY DATA SHEET

Issued Date 2009/9/28
Revision Date 2025/4/2

1. Identification of the product and of the company

* Product name SHIRAKI MAMORU

* Reference number 24201

* Manufacturer Washin Paint Co., Ltd.

* Address 2100-18, Kamiyoshiba, Satte-shi, Saitama 340-0121, Japan

* Phone No. 0480-48-2021

* FAX No. 0480-48-2024

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* Product type Acrylic resin paint

* Principal use Wood paint

2. Hazards identification

[Classification]

| Hazards | Category | Signal word |
|---|---|-------------|
| | Hazard statement | |
| Flammable liquids | Not classified | |
| Acute toxicity (Oral) | Not classified | |
| Acute toxicity (Dermal) | Not classified | |
| Acute toxicity (Gases) | Not classified | |
| Acute toxicity (Vapors) | Not classified | |
| Acute toxicity (Mists) | Not classified | |
| Skin corrosion/irritation | Classification not possible | |
| Serious eye damage/eye irritation | Classification not possible | |
| Respiratory sensitization | Classification not possible | |
| 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 | Category 2 May cause damage to organs | Warning |
| Specific target organ toxicity Repeated exposure | Category 2 May cause damage to organs through prolonged or repeated exposure | Warning |
| Aspiration hazard | Not classified | |
| Hazardous to aquatic environment Acute | Not classified | |
| Hazardous to aquatic environment Chronic | Classification not possible | |
| Hazardous to the ozone layer | Classification not possible | |

* If the signal word "Danger" applies, the signal word "Warning" should not appear.

* For the details with "Specific target organ toxicity", refer to "11. Toxicological information".

[Symbol]

Health hazard



[Precautionary statement]

(Prevention)

- * Obtain and understand special instructions before use.
- * Do not eat, drink or smoke when using this product.
- * Wear protective gloves and eye/face protection when it needs.
- * Wash hands thoroughly and gargle after handling.

(Response)

- * In case of fire, use CO2/powder/foams for extinction.
- * If in eyes: Rinse cautiously with water, get medical advice/attention.
- * If on skin or clothing: Wash with plenty of soap and water. Take off contaminated clothing and exchange it.
- * If skin irritation occurs: Get medical advice/attention.
- * If exposed or concerned of exposure: Get medical advice/attention.

(Storage)

- * Store container in the place which well-ventilated and cool.

(Disposal)

- * Do not dispose contents/container to the river and the sewage.
- * Dispose of contents/container in accordance with local/regional/national regulation.

3. Composition/information on ingredients

Property Mixture
Product type Acrylic resin paint

| Ingredient name | Weight (%) | CAS No. | Chemical formula | Duty of notify |
|---|------------|------------|--|----------------|
| water | 70~80 | 7732-18-5 | H ₂ O | — |
| resin | 10~20 | — | — | — |
| propylene glycol | 5~10 | 57-55-6 | C ₃ H ₈ O ₂ | ○ |
| silica, amorphous | 1~5 | — | SiO ₂ | ○ |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | 1~5 | 25265-77-4 | C ₁₂ H ₂₄ O ₃ | ○ |
| 2-(2-butoxyethoxy)ethanol | 1.5 | 112-34-5 | C ₈ H ₁₈ O ₃ | ○ |
| additive | 0~1 | — | — | — |
| | | | | |
| | | | | |
| | | | | |

4. First-aid measures

(If swallowed)

- * Do not induce vomiting. Keep at rest and get medical attention immediately.
- * Do not swallow vomit.

(If inhaled)

- * Remove to fresh air and keep at rest in a position comfortable for breathing.
- Get medical advice/attention if you feel unwell.

(If on skin)

- * Wipe off quickly with cloth and wash with plenty of water and soap.
- Do not use solvents or thinners.
- * If skin irritation or pain occurs, get medical advice/attention.

(If in eyes)

- * Wash with plenty of clean water for at least 15 minutes immediately, including behind the eyelids.
- * Get medical attention as soon as possible.

5. Fire-fighting measures

(Suitable extinguishing media)

* Water (☐), CO2 (☐), Foam (☐), Powder (☐), Dry sand (☐), Other (☐)

(Specific hazards arising from the product)

* This product itself is non-flammable, but the dry product after the water has evaporated is flammable.

* Will form toxic carbon monoxides upon combustion.

(Specific extinguishing method)

* Inform fire station of the location and the hazardous/toxicological information of fire.

* Prevent spills from entering sewers, watercourses.

* Wear respiratory protection and protective gloves.

* Remove quickly all flammable materials from the area.

* Use the suitable extinguishing medias.

* Do fire fighting from the windward.

(Special protective equipment and precautions for fire-fighters)

* Wear respiratory protective equipment/chemical protective clothing/gloves/boots/glasses/masks as necessary.

6. Accidental release measures

(Personal precautions, protective equipment and emergency procedures)

* Wear protective equipment (gloves, protective mask, apron, goggles, etc.).

(Environmental precautions)

* Prevent spills from entering sewers, watercourses.

* If contamination of sewer pipes or waterways occurs, notify appropriate authorities.

(Methods and materials for containment and cleaning up)

* Collect spills in sealable containers and move to a safe place.

* Absorb spills with inert material (dry sand, earth, et al).

* Water spray mist may be used to absorb the diffusion of Vapors.

* Dispose of waste in accordance with applicable laws and regulations.

7. Handling and storage

(Handling: Technical measure)

* Handle in accordance with relevant laws and regulations (the Industrial Safety and Health Act and the Fire Service Act, etc.).

* Follow the correct work procedures, ventilate well and keep the working environment below TLV.

* After handling, always wash with soap and water. Launder work clothing separately from other clothing.

(Handling: Notice)

* Avoid contact with strong oxidizing agent.

* Take caution as heat, acidic and alkaline substances may induce a reaction.

* Use containers that are not damaged, corroded or cracked.

* Used containers should be collected in the designated area.

(Storage)

* Store in a cool, well-ventilated place in a tightly closed container.

8. Exposure controls/personal protection

Standard control concentration, threshold limit value etc.

(Control parameters e.g. occupational exposure limit values or biological limit values)

| Ingredient name | Standard control concentration | Threshold limit value | ACGIH (TLV) | PRTR | Skin harmful substances | |
|---|--------------------------------|-----------------------|---------------|-------------|-------------------------|------------|
| | | | | | Irritation | Absorption |
| water | — | — | — | — | — | — |
| resin | — | — | — | — | — | — |
| propylene glycol | — | — | — | — | — | — |
| silica, amorphous | — | — | — | — | — | — |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | — | — | — | — | — | — |
| 2-(2-butoxyethoxy)ethanol | — | — | — | Class 1-170 | — | — |
| additive | — | — | — | — | — | — |
| | | | | | | |
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(Equipment measure)

* Install safety showers, hand- and face-washing facilities near handling areas and clearly indicate their locations.

* Post signs such as "NO UNAUTHORIZED ENTRY" in easily visible locations.

(Protection measure)

- * Wear the following protective equipment as necessary:
Air supply masks, air SCBA, oxygen SCBA, gas masks, protective goggles,
impermeable protective gloves, protective boots, protective clothing
- * Check protective equipment regularly using a checklist.
- * Do not eat, drink, or smoke while handling.
- * After handling, wash hands with soap before eating, drinking, or smoking.
- * If you experience asthma symptoms while using this product,
do not come into contact with it again as it may cause the same symptoms.
- * Contact lenses pose a special hazard.
Soft lenses should not be used because they can absorb irritants and concentrate them.
- * Wear impermeable chemical protective gloves and antistatic safety shoes.

9. Physical and chemical properties

(Physical state: Liquid)

| | | | | |
|--------------|-------------------|---------|-------|-------------|
| Liquid color | Milky | Density | 1.01 | g/mL (25°C) |
| Odor | Slight resin Odor | pH | 7 – 9 | |

10. Stability and reactivity

(Chemical stability)

- * Stable under normal storage/handling conditions.

(Possibility of hazardous reactions)

- * Reacts with oxidizing agents.
- * No other reactions were informed.

(Conditions to avoid)

- * Avoid heat and sources of ignition (flames, sparks, etc.).
- * Organic solvent vapors
- * Heat, light, metal powders and peroxides

11. Toxicological information

| Ingredient name | Acute toxicity | | | |
|---|-----------------------------|-----------------------------|----------------|-----------------------------|
| | Oral | Dermal | Gases | Vapors |
| water | Not classified | Not classified | Not classified | Not classified |
| resin | Not classified | Not classified | Not classified | Not classified |
| propylene glycol | Not classified | Not classified | Not classified | Classification not possible |
| silica, amorphous | Classification not possible | Classification not possible | Not classified | Classification not possible |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | Not classified | Not classified | Not classified | Classification not possible |
| 2-(2-butoxyethoxy)ethanol | Not classified | Not classified | Not classified | Classification not possible |
| additive | Classification not possible | Classification not possible | Not classified | Classification not possible |
| | | | | |
| | | | | |
| | | | | |

| Ingredient name | Acute toxicity | Skin corrosion/ irritation | Serious eye damage/ eye irritation | Respiratory sensitization |
|---|-----------------------------|-------------------------------|---------------------------------------|------------------------------|
| | Mists | | | |
| water | Not classified | Not classified | Not classified | Not classified |
| resin | Not classified | Not classified | Not classified | Not classified |
| propylene glycol | Classification not possible | Not classified | Not classified | Classification not possible |
| silica, amorphous | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | Not classified | Not classified | Category 2B | Classification not possible |
| 2-(2-butoxyethoxy)ethanol | Classification not possible | Not classified | Category 2A | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| | | | | |
| | | | | |
| | | | | |

| Ingredient name | Skin sensitization | Germ cell mutagenicity | Carcinogenicity | Reproductive toxicity |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| water | Not classified | Not classified | Not classified | Not classified |
| resin | Not classified | Not classified | Not classified | Not classified |
| propylene glycol | Not classified | Classification not possible | Classification not possible | Classification not possible |
| silica, amorphous | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| 2-(2-butoxyethoxy)ethanol | Classification not possible | Not classified | Classification not possible | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| | | | | |
| | | | | |

| Ingredient name | Specific target organ toxicity | | Aspiration hazard |
|---|--------------------------------|-----------------------------|-----------------------------|
| | Single exposure | Repeated exposure | |
| water | Not classified | Not classified | Not classified |
| resin | Not classified | Not classified | Not classified |
| propylene glycol | Category 1, 3 | Category 1, 3 | Classification not possible |
| silica, amorphous | Classification not possible | Classification not possible | Classification not possible |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | Classification not possible | Classification not possible | Classification not possible |
| 2-(2-butoxyethoxy)ethanol | Category 2, 3 | Category 1 | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible |
| | | | |
| | | | |

* This information is specific to the chemical substance and is not dependent on the concentration.

12. Ecological information

| Ingredient name | Hazardous to aquatic environment | | |
|---|----------------------------------|-----------------------------|-----------------------------|
| | Acute | Chronic | Ozone layer |
| water | Not classified | Not classified | Classification not possible |
| resin | Not classified | Not classified | Classification not possible |
| propylene glycol | Not classified | Not classified | Classification not possible |
| silica, amorphous | Classification not possible | Classification not possible | Classification not possible |
| 2,2,4-trimethyl-1,3-pentanediol monoisobutylate | Category 3 | Not classified | Classification not possible |
| 2-(2-butoxyethoxy)ethanol | Not classified | Not classified | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible |
| | | | |
| | | | |

* This information is specific to the chemical substance and is not dependent on the concentration.

- | | |
|---------------------------------|---|
| * Persistence and degradability | There is no data available for the mixture. |
| * Bioaccumulative potential | There is no data available for the mixture. |
| * Mobility in soil | There is no data available for the mixture. |

13. Disposal considerations

- * When disposing of this product, ask an industrial waste disposal company to handle the disposal.
- * Dispose of container after using the contents completely.
- * Dispose of the contents/container in accordance with local/national regulations.

14. Transport information

(National regulations)

- * There are no specific regulations.

(International regulations)

- * UN number None
- * UN classification Not considered a dangerous goods according to the definition of the UN recommendations.

(Special precautions)

- * When transporting by vehicle, etc., carry the transportation precautions and Yellow Card.
- * Check the container is tightly sealed and there are no leaks before transport.
- * To prevent containers from being damaged, secure them tightly and use cushioning material if necessary.

15. Regulatory information

* Industrial Safety and Health Act

| | |
|---|----------------|
| Dangerous goods | Not applicable |
| Ordinance on Prevention of Organic Solvent Poisoning | Not applicable |
| Ordinance on Prevention of Lead Poisoning | Not applicable |
| Ordinance on Prevention of Hazards Due to Specified Chemical Substances | Not applicable |
| Skin irritant harmful substances | Not applicable |
| Skin absorbable harmful substances | Not applicable |

- * Pollutant Release and Transfer Register Law Listed
- * Poisonous and Deleterious Substances Control Act Not applicable
- * Fire Service Act Not applicable
- * Ship Safety Act Not applicable
- * Offensive Odor Control Law Not listed

16. Other information

(Main references)

- * Data published by the National Institute of Technology and Evaluation
- * Japan Paint Manufacturers Association,
 - "Raw Materials Database"
 - "GHS-compliant SDS/Label Creation Guidebook [Mixtures (for paints)]"
 - "Model MSDS/Model Label Examples [Mixtures (for paints)]"
- * Japan Industrial Safety and Health Association,
 - "GHS-compliant Training Text for Creating MSDS of Mixtures (chemicals)"
- * The Society of Synthetic Organic Chemistry, Japan, "New Edition Solvent Pocket Book"
- * "Disaster Prevention and First Aid Handbook"
- * International Chemical Safety Cards (ICSC)
- * SDS of raw materials

(Notice)

- * This data sheet is based on our current knowledge and is intended as a description of health, safety and environmental information.
- * We do not guarantee any content, physical or chemical properties, hazards, etc.
- * When using, ensure safe handling conditions.
- * All chemical products may have unknown hazards and harmful effects, so they must be handled with the utmost care.
- * The scope of application of this data sheet is limited to Japan.