

SAFETY DATA SHEET

Effective Date 2015/10/23

1. Identification

| | |
|---------------------|--|
| * Product name | 2-Urethane Sanding Sealer (base) JPMA F☆☆☆☆ Reg. No. W02003 |
| * Reference number | 22901 |
| * Company | Washin Paint Co.,Ltd. |
| * Company address | 2100-18 Kamiyoshiba Satte-shi Saitama-ken 340-0121 Japan |
| * Section concerned | Production engineering department |
| * Person in charge | Takeyuki Kawashima |
| * Phone No. | 0480-48-2021 |
| * FAX No. | 0480-48-2024 |
| * Emergency contact | 0480-48-2021 |
| * Product kind | Two Component polyurethane resin paints (base) |
| * Principal use | Wood paint |

2. Hazards identification

[Classification]

| Hazards | Category Hazard statement | Signal word |
|--|---|-------------|
| Flammable liquids | Category 3 flammable liquid and vapour. | Warning |
| Acute toxicity Oral | Not classified | |
| Acute toxicity Dermal | Not classified | |
| Acute toxicity Gasas | Not applicable | |
| Acute toxicity Vapours | Category 4 Harmful if inhaled. | Warning |
| Acute toxicity Mists | Category 4 Harmful if inhaled. | Warning |
| Skin corrosion/irritation | Not classified | |
| Serious eye damage/eye irritation | Category 2 Causes serious eye irritation. | Warning |
| Respiratory sensitization | Not classified | |
| Skin sensitization | Category 1 May cause an allergic skin reaction. | Warning |
| Germ cell mutagenicity | Category 2 | Warning |
| Carcinogenicity | Not classified | |
| Reproductive toxicity | Not classified | |
| Specific target organ systemic toxicity Single exposure | Category 2 May causes damage to organs or state all organs affected if known. | Warning |
| Specific target organ systemic toxicity Repeated exposure | Category 2 May causes damage to organs state all organs affected, if known through prolonged or repeated exposure. | Warning |
| Aspiration hazard | Not classified | |
| Hazardous to aquatic environment Acute | Category 3 Harmful to aquatic life. | |
| Hazardous to aquatic environment Chronic | Not classified | |
| 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 systemic toxicity", refer to "11.Toxicological information".

[Symbol]



[Precautionary statement]

(Prevention)

- * Obtain and understand special instructions before use.
- * Keep away from ignition sources such as heat/sparks/open flame. – No smoking.
- * Store container tightly and avoid release to the environment.
- * Prevent the electro static discharge. Ground a container/carrier receptacle and so on.
- * Use the tools that sparks don't come out.
- * Avoid breathing vapours/mist/spray.
- * Don't 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 carbon dioxide/powder/foams for extinction.
- * If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.
Seek medical advice/attention if you feel unwell.
- * If in eyes: Rinse cautiously with water, get medical advice/attention.
- * If on skin or cloth: Wash with plenty of soap and water. Take off contaminated clothing and exchange it.
- * If skin irritation occurs, seek medical advice/attention.
- * If exposed or concerned: Get medical attention/advice.

(Storage)

- * Store container tightly closed in the place which well-ventilated, cool and child doesn't reach.

(Disposal)

- * Don't dispose contents to the river and the sewage. Dispose after using them up.
- * Dispose container in accordance with local/regional/national regulation. Don't use another purpose.

3. Composition/information on ingredients

| | |
|--------------|--|
| Property | Mixture |
| Product kind | Two Component polyurethane resin paints (base) |

| Chemical name | Weight (%) | CAS No. | Chemical structure | Notice duty |
|-----------------|------------|----------|--------------------|-------------|
| cyclohexanone | 1~5 | 108-94-1 | C6H10O | ○ |
| 1-butanol | 1~5 | 71-36-3 | C4H9OH | ○ |
| zinc distearate | 1~5 | 557-05-1 | (C18H35O2)2Zn | ○ |
| n-butyl acetate | 40~50 | 123-86-4 | C6H12O2 | ○ |
| — | — | — | — | — |

4. First-aid measures

(When swallowing)

- * Without making vomit by force, be rested and have a medical attention.
- * The vomit doesn't make swallow. Get medical attention.

(When inhaling)

- * Do the artificial respiration in case of breathing's being irregular or stopping.
- * The vomit doesn't make swallow.
- * Remove to fresh air and keep at rest in a position comfortable for breathing.
Seek medical advice/attention if you feel unwell.

(When adhering to the skin)

- * Wipes up quickly with cloth and washes it off sufficiently using plenty of water and soap.
Don't use organic solvent, thinner and so on.
- * If you get damage or feel pain, seek medical advice/attention.

(When entering eyes)

- * Wash for more than 15 minutes with a plenty of water at once.
- * Get a medical attention as fast as possible.

5. Fire-fighting measures

(Suitable extinguishing media)

- * Water (), Carbon dioxide (○), Foams (○), Powder (○), Dry sand (), Other (),

(Specific hazards arising from the chemical)

- * Liquid and vapour are extremely flammable.

If they expose to heat, flame and an oxidizer, there is danger of intense fire.

- * When heated, there is a fear of intense burst of container by expansion or resolution.
- * When burning, there is possibility to make carbon monoxide occur.

(Specific extinguishing method)

- * Tell Fire Service the place and the dangerous/hazardous property.
- * Prevent outflow being in water pipe or watercourse.
- * Wear respiratory-protective-equipment and protective-glove.
- * Remove combustibles quickly from the surrounding area.
- * Uses the suitable extinguishing media.
- * Do fire fighting from the windward.

(Special protective equipment and precautions for fire-fighters)

- * Wear respiratory-protective-equipment, chemical-defense clothes/glove/boots,/glasses/mask as occasion demands.

6. Accidental release measures

(Personal precautions, protective equipment and emergency procedures)

- * Lead personnel to the windward from outflow areas.
- * Avoid the inhalation of vapour. Avoid the contact to the skin and eyes. Promote ventilation.
- * Wear protective equipments (gloves, protective mask, apron and goggles).

(Environmental precautions)

- * Prevent outflow being in water pipe or watercourse.
- * When water pipe or watercourse are polluted, contact organs concerned.

(Methods and materials for containment and cleaning up)

- * Remove ignition sources. Prohibit smoking and fire. Use the tools which don't spark.
- * Collects outflow to the container which can be shut, and move it to the safe place.
- * Prevent outflow using dry sand, earth or other incombustible material, and make absorb residue to collect it.
- * It may use water sprayer to absorb the diffusion of vapour.
- * Dispose wastes based on the regulations concerned.

7. Handling and storage

(Handling: Technical measure)

- * Handle this based on the related laws (Industrial Safety and Health Law, Fire Defense Law, etc.).
- * Follow the operation-standard, keep working atmosphere below TLV, promote ventilation.
- * When in working, wear antistatic work clothing, shoes.
- * Remove ignition sources, prohibit smoking and fire, Use tools which don't spark.
- * Ground equipments (transport, dip, stirring liquid) and use explosion-proof type electric equipments.
- * After handling, wash hands with soap water. It should wash work clothing separately.

(Handling: Notice)

- * Ground equipments and use explosion-proof type electric equipments.
- * Avoid contact with strong oxidizing reagent.
- * It has a fear of causing a reaction by heating, acidic material and alkaline material.
- * Use the container which has no damage, no corrosion and no breakage.
- * Gather used containers to the decided safekeeping place.

(Storage)

- * Store container tightly closed in the place which well-ventilated and cool.
- * Follow the Fire Defense Law and so on because of flammable liquid.

8. Exposure controls/personal protection

Standard control concentration, threshold limit value etc.

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

| Chemical name | Standard control concentration | Threshold limit value | ACGIH (TWA) | PRTR |
|-----------------|--------------------------------|-----------------------|---------------------|------|
| cyclohexanone | 20ppm | 25ppm | 20ppm | — |
| 1-butanol | 25ppm | 50ppm | 20ppm | — |
| zinc distearate | — | — | 10mg/m ³ | — |
| n-butyl acetate | 150ppm | 100ppm | 150ppm | — |
| — | — | — | — | — |

[Equipment measure]

- * Set up sealed systems or local ventilation systems.
- * Set up safe shower, bathroom and face washing near the work area, and display the position.
- * Show the signs such like 'INFRAMABLES' or 'NO UNAUTHORIZED ENTRY'.
- * When handling flammable liquid, there needs explosion-proof type ventilation equipments/systems.

(Protection measure)

- * As occasion demands, wear following guards appropriately.
air-supplied respirator, air SCBA, oxygen SCBA, chemical-cartridge respirator, protective glasses, protective gloves, protective boots, protective clothing,
- * Check protective equipments regularly by the check list.
- * Don't eat, drink or smoke when using this product.
- * Wash hands with soap before eat, drink or smoke.
- * The person who showed the symptom of the asthma once should not contact this chemical because he may cause the same symptom.
- * Contact lens bring about special harm.
Don't use soft contact lens because it absorbs irritant and has possibility to concentrate them.
- * Wear chemical-proof type protective gloves and antistatic protective shoes.

9. Physical and chemical properties

(Physical state: Liquid)

| | | | | | |
|---------------------|----------------|--------------------------------------|-------------------|----------------------------------|--------|
| Colour | Milky | Density | 1.04 | Flash point | 28 °C |
| Odour | Solvent odour | PH | Not correspond | Ignition point | 347 °C |
| Boiling point Lower | 118 °C | Solbility | Not sol. In water | Flammability or explosive limits | |
| Boiling point Upper | 126 °C | Partiton coefficient n-octanol/water | | Lower | 1.5 % |
| Vapour pressure | 2000 Pa (ref.) | | No data | Upper | 15 % |

10. Stability and reactivity

(Chemical stability)

- * The product seems to be stable.
- * It has a possibility of the dangerous/harmful reaction.
- * It reacts to the oxidizing materials.
- * No other reactions were informed.

(Conditions to avoid)

- * Heating, Contact with the avoidance, Ignition source.
- * Degradation product which has dangerous/hazardous property.
- * Vapour of organic solvent.
- * Heat, light, metal powder and peroxide.

11. Toxicological information

| Chemical name | Acute toxicity | | | |
|-----------------|----------------|-----------------------------|----------------|-----------------------------|
| | Oral | Dermal | Gasas | Vapours |
| cyclohexanone | Category 4 | Category 3 | Not applicable | Category 3 |
| 1-butanol | Category 4 | Not classified | Not applicable | Not classified |
| zinc distearate | Not classified | Classification not possible | Not applicable | Classification not possible |
| n-butyl acetate | Not classified | Not classified | Not applicable | Category 3 |
| — | — | — | — | — |

(Special precautions)

- * In case of transportation, carry "transportation notice" or "Yellow Card".
- * Confirm container tightly closed and no leaking before transportation.
- * In case of transportation, fix a container tightly and use buffering one as occasion demands.

15. Regulatory information

- | | | |
|---|--|------------------|
| * Industrial Safety and Health Law | | |
| Dangerous goods | | Flammable liquid |
| Ordinance on the Prevention of Organic Solvent Poisoning | | Class-2 |
| Ordinance on Prevention of Lead Poisoning | | Not applicable |
| Ordinance on Prevention of Hazards due to Specified Chemical Substances | | Not applicable |
| * Pollutant Release and Transfer Register Law | | Not listed |
| * Poisonous and Deleterious Substances Control Law | | Not applicable |
| * Fire Defense Law | | Annex class 4-2 |
| * Ship Safety Law | | Flammable liquid |
| * Offensive Odor Control Law | | Not listed |

16. Other information

(Main reference)

- * National Institute of Technology and Evaluation Opend data
- * Japan Paint Manufacturers Association
 - Raw material data base
 - The guide book for the creating SDS and label [mixture (paint)] Second edition
 - Model MSDS and label samples [mixture (paint)]
- * Japan Industrial Safety and Health Association
 - The OJT text for the MSDS of mixture (chemicals) by GHS compatible
- * "YOZAI Pocket Book"
- * "KIKEN BOSAI KYUKYU BINRAN"
- * International Chemical Safety Cards (ICSC)
- * SDS of raw materials

(Notice)

- * This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only.
- * It should not therefore be construed as guaranteeing any specific property of the product.
- * In case of use, set a safe conditions for handling.
- * All chemicals have possibility of unknown hazards, so it needs a due attention for handling.
- * Applicable scope of this document is only in Japan.