

SAFETY DATA SHEET

Issued Date 2015/8/3
Revision Date 2023/8/7

1. Identification

* Product name NAGOMI Walnut Color

* Reference number 27803

* Company Washin Paint Co.,Ltd.

* Company address 2100-18 Kamiyoshiba Satte-shi Saitama-ken 340-0121 Japan

* Section concerned Engineering Department

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* Product kind 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 Gasas | Not applicable | |
| Acute toxicity Vapours | Not classified | |
| Acute toxicity Mists | Not classified | |
| Skin corrosion/irritation | Not classified | |
| Serious eye damage/eye irritation | Not classified | |
| Respiratory sensitization | Not classified | |
| Skin sensitization | Not classified | |
| Germ cell mutagenicity | Not classified | |
| Carcinogenicity | Not classified | |
| Reproductive toxicity | Not classified | |
| Specific target organ systemic toxicity Single exposure | Not classified | |
| Specific target organ systemic toxicity Repeated exposure | Not classified | |
| Aspiration hazard | Not classified | |
| Hazardous to aquatic environment Acute | Not classified | |
| 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.
- * 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 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 in the place which well-ventilated and cool.

(Disposal)

- * Don't dispose contents/container to the river and the sewage.
- * Dispose contents/container in accordance with local/regional/national regulation.

3. Composition/information on ingredients

Property Mixture
Product kind Acrylic resin paint

| Chemical name | Weight (%) | CAS No. | Chemical structure | Notice duty |
|-------------------------------------|------------|------------|---|-------------|
| carbon black | 0~1 | 1333-86-4 | C | ○ |
| 1-methyl-2-pyrrolidone | 0~1 | 872-50-4 | C ₅ H ₉ NO | ○ |
| pigment | 0~1 | — | — | — |
| additive | 1~5 | — | — | — |
| dipropylene glycol monomethyl ether | 1~5 | 34590-94-8 | C ₇ H ₁₆ O ₃ | ○ |
| resin | 20~30 | — | — | — |
| water | 50~60 | 7732-18-5 | H ₂ O | — |
| — | — | — | — | — |
| — | — | — | — | — |
| — | — | — | — | — |

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)

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

(Specific hazards arising from the chemical)

- * This substance is not inflammable but the dry material is inflammable.
- * 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)

- * 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)

- * Collects outflow to the container which can be shut, and move it to the safe place.
- * Prevent outflow using dry sand, earth or other imcombustible 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.
- * After handling, wash hands with soap water. It should wash work clothing separately.

(Handling: Notice)

- * 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.

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 (TLV) | PRTR |
|-------------------------------------|--------------------------------|-----------------------|--------------------|------|
| carbon black | — | 1mg/m ³ | 3mg/m ³ | — |
| 1-methyl-2-pyrrolidone | — | 1ppm | — | — |
| pigment | — | — | — | — |
| additive | — | — | — | — |
| dipropylene glycol monomethyl ether | — | — | 100ppm | — |
| resin | — | — | — | — |
| water | — | — | — | — |
| — | — | — | — | — |
| — | — | — | — | — |
| — | — | — | — | — |

[Equipment measure]

- * Set up safe shower, bathroom and face washing near the work area, and display the position.
- * Show the signs such like 'NO UNAUTHORIZED ENTRY'.

(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 | Indicate in the product name | Density | 1.05 g/mL(25°C) | Flash point | Not |
| Odour | Slight resin odour | PH | 7 - 9 | Ignition point | No data |
| Boiling point | No data | Solubility | No data | Flammability or explosive limits | |
| Vapour pressure | No data | Partiton coefficient n-octanol/water | | Lower | No data |
| | | | No data | Upper | No data |

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 |
| carbon black | Not classified | Classification not possible | Not classified | Classification not possible |
| 1-methyl-2-pyrrolidone | Not classified | Not classified | Not classified | Classification not possible |
| pigment | Classification not possible | Classification not possible | Not classified | Classification not possible |
| additive | Classification not possible | Classification not possible | Not classified | Classification not possible |
| dipropylene glycol monomethyl ether | Not classified | Not classified | Not classified | Classification not possible |
| resin | Not classified | Not classified | Not classified | Not classified |
| water | Not classified | Not classified | Not classified | Not classified |
| — | — | — | — | — |
| — | — | — | — | — |
| — | — | — | — | — |

| Chemical name | Acute toxicity | Skin corrosion/ irritation | Serious eye damage/ eye irritation | Respiratory sensitization |
|-------------------------------------|-----------------------------|-------------------------------|---------------------------------------|------------------------------|
| | Mists | | | |
| carbon black | Classification not possible | Not classified | Not classified | Classification not possible |
| 1-methyl-2-pyrrolidone | Not classified | Category 2 | Category 2A | Classification not possible |
| pigment | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| dipropylene glycol monomethyl ether | Classification not possible | Not classified | Category 2B | Classification not possible |
| resin | Not classified | Not classified | Not classified | Not classified |
| water | Not classified | Not classified | Not classified | Not classified |
| — | — | — | — | — |
| — | — | — | — | — |
| — | — | — | — | — |

| Chemical name | Skin sensitization | Germ cell mutagenicity | Carcinogenicity | Reproductive toxicity |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| carbon black | Classification not possible | Classification not possible | Category 2 | Classification not possible |
| 1-methyl-2-pyrrolidone | Classification not possible | Not classified | Classification not possible | Category 1B |
| pigment | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| dipropylene glycol monomethyl ether resin | Not classified | Classification not possible | Classification not possible | Classification not possible |
| resin | Not classified | Not classified | Not classified | Not classified |
| water | Not classified | Not classified | Not classified | Not classified |
| — | — | — | — | — |
| — | — | — | — | — |
| — | — | — | — | — |

| Chemical name | Specific target organ systemic toxicity | | Aspiration hazard |
|---|---|-----------------------------|-----------------------------|
| | Single exposure | Repeated exposure | |
| carbon black | Classification not possible | Classification not possible | Classification not possible |
| 1-methyl-2-pyrrolidone | Category 3 | Category 2 | Classification not possible |
| pigment | Classification not possible | Classification not possible | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible |
| dipropylene glycol monomethyl ether resin | Category 3 | Not classified | Classification not possible |
| resin | Not classified | Not classified | Not classified |
| water | Not classified | Not classified | Not classified |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |

* Hazards information is peculiar to the chemicals. It doesn't change according to the content.

12. Ecological information

| Chemical name | Hazardous to aquatic environment | | |
|---|----------------------------------|-----------------------------|-----------------------------|
| | Acute | Chronic | Ozone layer |
| carbon black | Not classified | Classification not possible | Classification not possible |
| 1-methyl-2-pyrrolidone | Not classified | Not classified | Classification not possible |
| pigment | Classification not possible | Classification not possible | Classification not possible |
| additive | Classification not possible | Classification not possible | Classification not possible |
| dipropylene glycol monomethyl ether resin | Not classified | Not classified | Classification not possible |
| resin | Not classified | Not classified | Classification not possible |
| water | Not classified | Not classified | Classification not possible |
| — | — | — | — |
| — | — | — | — |
| — | — | — | — |

* Hazards information is peculiar to the chemicals. It doesn't change according to the content.

- * Residual property/resolvability There are not data as a mixture.
- * Creature accumulation characteristics There are not data as a mixture.
- * Movement degree in the soil There are not data as a mixture.

13. Disposal consideration

- * Requests disposal to the agency who has solid-waste-treatment license.
- * When disposing container, dispose after removing a content fully.
- * Dispose of contents/container in accordance with local/regional/national regulation.

14. Transport information

(National regulation)

- * There is not special regulation.

(International regulation)

- * UN number Not
- * UN classification It doesn't correspond to the danger according to the UN recommendation.

(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 | Not applicable |
| Ordinance on the 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 |

- * Pollutant Release and Transfer Register Law Not listed
- * Poisonous and Deleterious Substances Control Law Not applicable
- * Fire Defense Law Not applicable
- * Ship Safety Law Not applicable
- * 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)]
 - 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)
- * MSDS 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.