

SAFETY DATA SHEET

Issued Date 2016/9/15
Revision Date 2025/6/17

1. Identification of the product and of the company

* Product name Water-Based Urethane Varnish: Flat KEYAKI

* Reference No. 28206

* Manufacturer Washin Paint Co., Ltd.

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

* Phone No. 0480-48-2021

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* Product type Water-based pigment type coloring paint

* Principal use Wood paint

2. Hazards identification

[Classification]

Hazards		Category	Signal word
		Hazard statement	
Flammable liquids		Not classified	
Acute toxicity	Oral	Not classified	
	Dermal	Not classified	
	Gases	Not classified	
	Vapors	Not classified	
	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	

* 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 Water-based pigment type coloring paint

Ingredient name	Weight (%)	CAS No.	Chemical formula	Duty of notify
Water	50~60	7732-18-5	H ₂ O	—
Resin	30~40	—	—	—
Dipropylene glycol butyl ether	5~10	29911-28-2	C ₁₀ H ₂₂ O ₃	○
Silica, amorphous	1~5	—	SiO ₂	○
Propylene glycol	1~5	57-55-6	C ₃ H ₈ O ₂	○
Additive	0~1	—	—	—
Pigment	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 (Ctrl. No.)	Skin harmful substances	
					Irritation	Absorption
Water	—	—	—	—	—	—
Resin	—	—	—	—	—	—
Dipropylene glycol butyl ether	—	—	—	—	—	—
Silica, amorphous	—	—	—	—	—	—
Propylene glycol	—	—	—	—	—	—
Additive	—	—	—	—	—	—
Pigment	—	—	—	—	—	—

(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	Indicated in the product name	Density	1.06 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
Dipropylene glycol butyl ether	Not classified	Not classified	Not classified	Classification not possible
Silica, amorphous	Classification not possible	Classification not possible	Not classified	Classification not possible
Propylene glycol	Not classified	Not classified	Not classified	Classification not possible
Additive	Classification not possible	Classification not possible	Not classified	Classification not possible
Pigment	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
Dipropylene glycol butyl ether	Classification not possible	Not classified	Not classified	Classification not possible
Silica, amorphous	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Propylene glycol	Classification not possible	Not classified	Not classified	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Pigment	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
Dipropylene glycol butyl ether	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
Propylene glycol	Not classified	Classification not possible	Classification not possible	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Pigment	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
Dipropylene glycol butyl ether	Classification not possible	Category 2	Classification not possible
Silica, amorphous	Classification not possible	Classification not possible	Classification not possible
Propylene glycol	Category 1, 3	Category 1, 3	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible
Pigment	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		Hazardous to the ozone layer
	Acute	Chronic	
Water	Not classified	Not classified	Classification not possible
Resin	Not classified	Not classified	Classification not possible
Dipropylene glycol butyl ether	Not classified	Not classified	Classification not possible
Silica, amorphous	Classification not possible	Classification not possible	Classification not possible
Propylene glycol	Not classified	Not classified	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible
Pigment	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 Hazardous material 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

- | | |
|---|----------------|
| • Hazardous material | 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 listed |
| • Skin absorbable harmful substances | Not listed |

* Pollutant Release and Transfer Register Law Not 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.