

SAFETY DATA SHEET

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1. Identification of the product and of the company

* Product name Solvent-Based Varnish: Clear

* Reference No. 20101

* Manufacturer Washin Paint Co., Ltd.

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

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* Product type One-component polyurethane resin paint

* Principal use Wood paint

2. Hazards identification

[Classification]

Hazards		Category	Signal word
		Hazard statement	
Flammable liquids		Category 3	Warning
		Flammable liquid and vapor	
Acute toxicity	Oral	Not classified	
	Dermal	Not classified	
	Gases	Not classified	
	Vapors	Not classified	
	Mists	Not classified	
Skin corrosion/irritation		Category 2	Warning
		Causes skin irritation	
Serious eye damage/eye irritation		Category 2	Warning
		Causes serious eye irritation	
Respiratory sensitization		Classification not possible	
Skin sensitization		Category 1	Warning
		May cause an allergic skin reaction	
Germ cell mutagenicity		Classification not possible	
Carcinogenicity		Category 1	Danger
		May cause cancer	
Reproductive toxicity		Category 1	Danger
		May damage fertility or the unborn child	
Specific target organ toxicity: Single exposure		Category 3	Warning
		May cause respiratory irritation; or may cause drowsiness or dizziness	
Specific target organ toxicity: Repeated exposure		Category 2	Warning
		May cause damage to organs through prolonged or repeated exposure	
Aspiration hazard		Not classified	
Hazardous to aquatic environment: Acute		Category 1	Warning
		Very toxic to aquatic life	
Hazardous to aquatic environment: Chronic		Category 1	Warning
		Very toxic to aquatic life with long lasting effects	
Hazardous to the ozone layer		Classification not possible	

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

[Symbol]



[Precautionary statement]

(Prevention)

- * Obtain and understand special instructions before use.
- * Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- * Keep container tightly closed and avoid release to the environment.
- * Take action to prevent static discharge. Ground a container/carrier receptacle etc.
- * Use non-sparking tools.
- * Avoid breathing powder dust.
- * 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.
- * Paint-covered rags, abrasive waste should be incinerated, or soaked in water until disposal because they may spontaneously combust.

(Response)

- * In case of fire, use CO₂/powder/foams for extinction.
- * 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 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 tightly closed in the place which well-ventilated, cool and child doesn't reach.

(Disposal)

- * Do not dispose of contents to the river and the sewage. Dispose of container after the contents are used up.
- * Dispose of container in accordance with local/regional/national regulation. Do not use another purpose.

3. Composition/information on ingredients

Property Mixture
Product type One-component polyurethane resin paint

Ingredient name	Weight (%)	CAS No.	Chemical formula	Duty of notify
Resin	40~50	—	—	—
Mineral spirit	40~50	8052-41-3	—	○
n-Nonane	7	111-84-2	C ₉ H ₂₀	○
Propylene glycol monomethyl ether	1~5	107-98-2	C ₁₄ H ₁₀ O ₂	○
1,2,4-Trimethylbenzene	1.2	95-63-6	C ₉ H ₁₂	○
Methylethyl ketone oxime	1~5	96-29-7	C ₄ H ₉ NO	○
Xylene	0.66	1330-20-7	C ₈ H ₁₀	○
Additive	0~1	—	—	—
Ethylbenzene	0.28	100-41-4	C ₈ H ₁₀	○

4. First-aid measures

(If swallowed)

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

(If inhaled)

- * Give artificial respiration if breathing is irregular or has stopped.
- * Do not swallow vomit and get medical attention immediately.
- * 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 (O), Foam (O), Powder (O), Dry sand (), Other ()

(Specific hazards arising from the product)

- * Liquid and vapor are extremely flammable.
If they expose to heat, flame or oxidizers, there is danger of intense fire.
- * May burst of container intensely by expansion and decomposition of content.
- * 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)

- * Evacuate personnel for windward from the leak area.
- * Avoid inhalation of vapors and contact with skin and eyes. Ventilate well.
- * 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)

- * Eliminate all ignition sources. Prohibit smoking, open flames. Use only non-sparking tools.
- * 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.
- * Wear antistatic work clothing and shoes while handling.
- * Eliminate all ignition sources. Prohibit smoking and fire. Use non-sparking tools.
- * Equipment for transporting, pumping, stirring, etc. must be grounded. Use explosion-proof electrical devices.
- * After handling, always wash with soap and water. Launder work clothing separately from other clothing.

(Handling: Notice)

- * To prevent static discharge, ground all equipment and use explosion-proof electrical devices.
- * 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.
- * Follow the Fire Service Act and other regulations because of a 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)

Ingredient name	Standard control concentration	Threshold limit value	ACGIH (TLV)	PRTR (Ctrl. No.)	Skin harmful substances	
					Irritation	Absorption
Resin	—	—	—	—	—	—
Mineral spirit	—	—	100 ppm	—	—	—
n-Nonane	—	200 ppm	200 ppm	Class 2 (791)	—	—
Propylene glycol monomethyl ether	—	—	100 ppm	—	—	—
1,2,4-Trimethylbenzene	—	25 ppm	25 ppm	Class 1 (691)	—	—
Methylethyl ketone oxime	—	—	—	—	○	○
Xylene	50 ppm	50 ppm	100 ppm	Class 1 (80)	—	○
Additive	—	—	—	—	—	—
Ethylbenzene	20 ppm	20 ppm	20 ppm	Class 1 (53)	—	—

(Equipment measure)

- * Set up sealed systems or local exhaust ventilation.
- * Install safety showers, hand- and face-washing facilities near handling areas and clearly indicate their locations.
- * Post signs such as 'NO OPEN FLAMES' and 'NO UNAUTHORIZED ENTRY' in easily visible locations.
- * Explosion-proof local exhaust ventilation is required in workplaces where flammable liquids are handled.

(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	Transparent pale brown	Density	0.90 g/mL (25°C)	Flash point	41 °C
Odor	Solvent odor	pH	Not correspond	Ignition point	210 °C
Boiling point (Lower)	130 °C	Solubility	Insoluble in water	Flammability or explosive limits	
Boiling point (Upper)	230 °C	Partition coefficient n-octanol/water		(Lower)	1 %
Vapor pressure	1000 Pa (ref.)		No data	(Upper)	7 %

10. Stability and reactivity

(Chemical stability)

- * Stable under normal storage/handling conditions.

(Possibility of hazardous reactions)

- * Reacts with oxidizing agents.
- * Paint residue, mist, paint-covered rags, may spontaneously combust if they will oxidize in the air and accumulate heat.

(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
Resin	Not classified	Not classified	Not classified	Not classified
Mineral spirit	Not classified	Classification not possible	Not classified	Classification not possible
n-Nonane	Classification not possible	Classification not possible	Not classified	Category 4
Propylene glycol monomethyl ether	Not classified	Not classified	Not classified	Not classified
1,2,4-Trimethylbenzene	Not classified	Classification not possible	Not classified	Classification not possible
Methylethyl ketone oxime	Category 4	Category 4	Not classified	Classification not possible
Xylene	Not classified	Category 4	Not classified	Not classified
Additive	Classification not possible	Classification not possible	Not classified	Classification not possible
Ethylbenzene	Not classified	Not classified	Not classified	Category 4

Ingredient name	Acute toxicity	Skin corrosion/ irritation	Serious eye damage/ eye irritation	Respiratory sensitization
	Mists			
Resin	Not classified	Not classified	Not classified	Not classified
Mineral spirit	Classification not possible	Category 2	Not classified	Classification not possible
n-Nonane	Not classified	Category 2	Category 2B	Classification not possible
Propylene glycol monomethyl ether	Classification not possible	Not classified	Category 2B	Classification not possible
1,2,4-Trimethylbenzene	Not classified	Category 2	Category 2	Classification not possible
Methylethyl ketone oxime	Not classified	Not classified	Category 1	Classification not possible
Xylene	Classification not possible	Category 2	Category 2	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Ethylbenzene	Not classified	Classification not possible	Category 2B	Classification not possible

Ingredient name	Skin sensitization	Germ cell mutagenicity	Carcinogenicity	Reproductive toxicity
Resin	Not classified	Not classified	Not classified	Not classified
Mineral spirit	Not classified	Not classified	Classification not possible	Not classified
n-Nonane	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Propylene glycol monomethyl ether	Classification not possible	Classification not possible	Classification not possible	Not classified
1,2,4-Trimethylbenzene	Classification not possible	Not classified	Classification not possible	Classification not possible
Methylethyl ketone oxime	Category 1	Not classified	Category 1B	Not classified
Xylene	Classification not possible	Not classified	Not classified	Category 1B
Additive	Classification not possible	Classification not possible	Classification not possible	Classification not possible
Ethylbenzene	Not classified	Not classified	Category 2	Category 1B

Ingredient name	Specific target organ toxicity		Aspiration hazard
	Single exposure	Repeated exposure	
Resin	Not classified	Not classified	Not classified
Mineral spirit	Category 3	Category 2	Category 1
n-Nonane	Category 2, 3	Classification not possible	Category 1
Propylene glycol monomethyl ether	Category 3	Not classified	Classification not possible
1,2,4-Trimethylbenzene	Category 3	Category 1, 3	Category 1
Methylethyl ketone oxime	Category 3	Category 1	Classification not possible
Xylene	Category 1, 3	Category 1	Category 1
Additive	Classification not possible	Classification not possible	Classification not possible
Ethylbenzene	Category 3	Category 1	Category 1

* 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	
Resin	Not classified	Not classified	Classification not possible
Mineral spirit	Category 1	Category 1	Classification not possible
n-Nonane	Category 1	Category 1	Classification not possible
Propylene glycol monomethyl ether	Not classified	Not classified	Classification not possible
1,2,4-Trimethylbenzene	Category 2	Category 2	Classification not possible
Methylethyl ketone oxime	Category 3	Category 3	Classification not possible
Xylene	Category 2	Category 2	Classification not possible
Additive	Classification not possible	Classification not possible	Classification not possible
Ethylbenzene	Category 1	Category 2	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 regulation)

- * UN number 1263
- * Guideline number 128
- * Land transport Follow the transport methods stipulated in the Fire Service Act, Industrial Safety and Health Act, etc.
- * Air transport Follow the transport methods stipulated in the Aviation Act.
- * Maritime transport Follow the transport methods stipulated in the Ship Safety Act.
- * Fire Service Act Annex class 4-2 (Water-insoluble) Danger class III

(International regulation)

- * UN number 1263
- * UN proper shipping name PAINT
- * UN classification Class 3 Flammable liquid

(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 Flammable liquid
 - Ordinance on Prevention of Organic Solvent Poisoning Class-3
 - Ordinance on Prevention of Lead Poisoning Not applicable
 - Ordinance on Prevention of Hazards Due to Specified Chemical Substances Not applicable
 - Skin irritant harmful substances Listed
 - Skin absorbable harmful substances Listed
- * Pollutant Release and Transfer Register Law Listed
- * Poisonous and Deleterious Substances Control Act Not applicable
- * Fire Service Act Annex class 4-2 (Water-insoluble)
- * Ship Safety Act Flammable liquid
- * Offensive Odor Control Law 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.