

SAFETY DATA SHEET

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1. Identification of the product and of the company

* Product name Neo Lac Varnish

* Reference No. 23601

* 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 Synthetic resin paint

* Principal use Wood paint

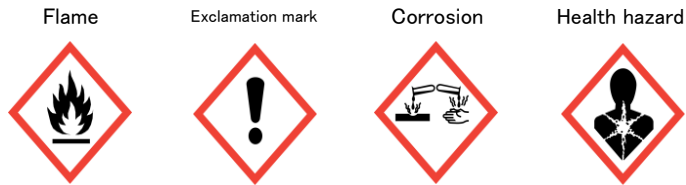
2. Hazards identification

[Classification]

| Hazards | | Category | Signal word |
|--|--------|--|-------------|
| | | Hazard statement | |
| Flammable liquids | | Category 2 | Danger |
| | | Highly 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 1 | Danger |
| | | Causes serious eye damage | |
| Respiratory sensitization | | Classification not possible | |
| Skin sensitization | | Classification not possible | |
| Germ cell mutagenicity | | Classification not possible | |
| Carcinogenicity | | Classification not possible | |
| Reproductive toxicity | | Category 1 | Danger |
| | | May damage fertility or the unborn child | |
| Specific target organ toxicity: Single exposure | | Category 1 | Danger |
| | | Causes damage to organs | |
| Specific target organ toxicity: Repeated exposure | | Category 1 | Danger |
| | | Causes damage to organs through prolonged or repeated exposure | |
| 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 | |

* 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.

(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 Synthetic resin paint

| Ingredient name | Weight (%) | CAS No. | Chemical formula | Duty of notify |
|------------------------------|------------|------------|---|----------------|
| Methanol | 30~40 | 67-56-1 | CH ₄ O | ○ |
| 2-Propanol | 20~30 | 67-63-0 | C ₃ H ₈ O | ○ |
| Butyl acetate | 10~20 | 123-86-4 | C ₆ H ₁₂ O ₂ | ○ |
| Resin | 10~20 | — | — | — |
| 1-Butanol | 5~10 | 71-36-3 | C ₄ H ₁₀ O | ○ |
| 3-Methoxy-3-methyl-1-butanol | 1~5 | 56539-66-3 | C ₆ H ₁₄ O ₂ | ○ |
| | | | | |
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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 |
| Methanol | 200 ppm | 200 ppm | 200 ppm | — | — | ○ |
| 2-Propanol | 200 ppm | 400 ppm | 200 ppm | — | — | — |
| Butyl acetate | 150 ppm | 100 ppm | 150 ppm | — | — | — |
| Resin | — | — | — | — | — | — |
| 1-Butanol | 25 ppm | 50 ppm | 20 ppm | — | ○ | ○ |
| 3-Methoxy-3-methyl-1-butanol | — | — | — | — | — | — |
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(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 colorless | Density | 0.85 g/mL (25°C) | Flash point | 17 °C |
| Odor | Solvent odor | pH | Not correspond | Ignition point | 343 °C |
| Boiling point (Lower) | 64.7 °C | Solubility | Insoluble in water | Flammability or explosive limits | |
| Boiling point (Upper) | 126 °C | Partition coefficient n-octanol/water | | (Lower) | 1.2 % |
| Vapor pressure | 16796 Pa (ref.) | | No data | (Upper) | 36 % |

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 |
| Methanol | Category 4 | Not classified | Not classified | Not classified |
| 2-Propanol | Not classified | Not classified | Not classified | Not classified |
| Butyl acetate | Not classified | Not classified | Not classified | Classification not possible |
| Resin | Not classified | Not classified | Not classified | Not classified |
| 1-Butanol | Not classified | Not classified | Not classified | Classification not possible |
| 3-Methoxy-3-methyl-1-butanol | Not classified | Not classified | Not classified | Classification not possible |
| | | | | |
| | | | | |
| | | | | |

| Ingredient name | Acute toxicity | Skin corrosion/ irritation | Serious eye damage/ eye irritation | Respiratory sensitization |
|------------------------------|-----------------------------|-------------------------------|---------------------------------------|------------------------------|
| | Mists | | | |
| Methanol | Classification not possible | Classification not possible | Category 2 | Classification not possible |
| 2-Propanol | Classification not possible | Not classified | Category 2 | Classification not possible |
| Butyl acetate | Classification not possible | Not classified | Category 2B | Classification not possible |
| Resin | Not classified | Not classified | Not classified | Not classified |
| 1-Butanol | Not classified | Category 2 | Category 1 | Classification not possible |
| 3-Methoxy-3-methyl-1-butanol | Classification not possible | Not classified | Category 2A | Classification not possible |
| | | | | |
| | | | | |
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| Ingredient name | Skin sensitization | Germ cell mutagenicity | Carcinogenicity | Reproductive toxicity |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Methanol | Not classified | Not classified | Classification not possible | Category 1B |
| 2-Propanol | Classification not possible | Classification not possible | Classification not possible | Category 2 |
| Butyl acetate | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| Resin | Not classified | Not classified | Not classified | Not classified |
| 1-Butanol | Classification not possible | Classification not possible | Classification not possible | Classification not possible |
| 3-Methoxy-3-methyl-1-butanol | Not classified | Classification not possible | Classification not possible | Not classified |
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| Ingredient name | Specific target organ toxicity | | Aspiration hazard |
|------------------------------|--------------------------------|-----------------------------|-----------------------------|
| | Single exposure | Repeated exposure | |
| Methanol | Category 1, 3 | Category 1 | Classification not possible |
| 2-Propanol | Category 1, 3 | Category 1, 2 | Classification not possible |
| Butyl acetate | Category 3 | Classification not possible | Classification not possible |
| Resin | Not classified | Not classified | Not classified |
| 1-Butanol | Category 3 | Category 1 | Classification not possible |
| 3-Methoxy-3-methyl-1-butanol | Classification not possible | Classification not possible | Classification not possible |
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| | | | |
| | | | |

* 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 | |
| Methanol | Not classified | Not classified | Classification not possible |
| 2-Propanol | Not classified | Not classified | Classification not possible |
| Butyl acetate | Category 3 | Not classified | Classification not possible |
| Resin | Not classified | Not classified | Classification not possible |
| 1-Butanol | Not classified | Not classified | Classification not possible |
| 3-Methoxy-3-methyl-1-butanol | Not classified | Not classified | Classification not possible |
| | | | |
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| | | | |

* 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 4-1 (Water-insoluble) Danger class II

(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-2
 - 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 Not listed
- * Poisonous and Deleterious Substances Control Act Not applicable
- * Fire Service Act Annex class 4-1 (Water-insoluble)
- * Ship Safety Act Flammable liquid
- * 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.