

Material Safety Data Sheet

MANUFACTURER INFORMATION

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1. PRODUCT NAME

UV Hardening Resin UV-3240

2. SPECIFICATION OF SUBSTANCE

CLASSIFICATION OF PRODUCT: Mixture

CHEMICAL NAME: Acrylated UV Hardening Resin

CHEMICAL, STRUCTURAL FORMULA: Trade secret

3. CLASSIFICATION OF DANGEROUS TOXICITY

CLASSIFICATION: Flammable liquid

DANGEROUS POSSIBILITY: 1) Product may polymerize at lights, high temperatures, acids, basic etc.
2) Oxygen is necessary to avoid polymerization. (Nitrogen seal prohibited)

TOXICITY: May cause skin problems such as itching, skin irritation etc.

ENVIRONMENTAL EFFECTS: N/D

4. DANGER INFORMATION (DANGER / REACTIVITY)

FLASH POINT: >170° C (>340° F)

AUTO-IGNITION TEMPERATURE: None (Auto-ignition, reactivity with water)

COMBUSTIBILITY: Yes

Direct heat, Sunlight, UV-light may cause reaction. Polymerization may occur with acids, under aversion condition, or sealed with inert gas. Peroxide, alkalis, amines may cause decomposition or reaction.

Incompatibility (Materials to Avoid): Direct heat, sunlight, strong acid, peroxide, oxidizer, metal powder, 1-2 grade amines.

5 HEALTH HAZARDS

PARTIAL: May cause skin irritation, itching, eruptions.

CHRONIC: May cause dermal sensitization in a few days to a week.

ACUTE: N/A

6 DISPOSAL CONSIDERATION

DISPOSAL METHODS: Treatment, storage, transportation, and disposal must be in accordance with applicable local regulations, or consult with local waste disposal organization to proceed disposal.

POLLUTED CONTAINER / PACKAGES: Remove remaining in the container and wash it with water or steam. Consult with local waste disposal organization to collect the container as well.

OTHERS: Comply with the local regulations for waste disposal if there is any specific rules.

7 TRANSPORTATION INFORMATION

Keep away from direct sunlight.

For transporting, make sure there is no leakage in the container, and pack the product securely not to fall or damage the package.

Follow the regulations in accordance with local fire department.

APPLICABLE REGULATION: Comply with fire defenses regulation as "8th oil kind in 4th dangerous material"

Other regulation: N/A

8 HANDLING AND CUSTODY

HANDLING: A person with allergic reaction should wear protection to avoid direct contact with hands, body, and/or inhalation. Wipe and/or clean the floor if it is spilled. Wash well your hands, face and gargle after use. Keep away from high temperature material, spark and fire. No mixing or contact with acid material and/or peroxide. To avoid static electricity, wear a conductive working cloth and shoes. Handle product carefully not to fall or add shock on the container. Check the process and safety measures of working environment against the reaction / danger well and test before using.

CUSTODY: Keep in cool and dark place avoiding direct sunlight. Keep away from acid material, peroxide, metal, 1-2 grade amines and so on. Use anti-explosion electrical equipment in the storage room. Do not keep much longer than its storage period.

9 MEASURES FOR PROTECTING EXPOSURE

CONTROLLING TEMPERATURE: No data

PERMISSIBLE TEMPERATURE: No data by Association of Japan industrial hygiene

MEASURE TO INSTALL: Use anti-explosion, air-tight equipment to seal up the outbreak source. Set a spot ventilation equipment. Have lavatory and/or washing equipment for face and body near the working area and specify the location.

PROTECTIONS:
For eyes and face: Protection Glass
For hands and arms: Protection Glove (Oiliness resistant glove such as made of natural rubber)
For respiratory organs: Mask for organic gas or air supply mask if necessary
For skin and body: Apron type protector, Oiliness resistant shoes
Others: Choose proper protections in accordance with working process. Consider electrification.

10 PHYSICAL / CHEMICAL CHARACTERISTIC

APPEARANCE: Light yellowish Liquid

VOLATILITY: Almost none

SOLUBILITY: Hardly to water, easily to organic solvent

VISCOSITY: 3000~5000 cps (25°C)

11 FIRST-AID TREATMENT

EYE CONTACT: Immediately flush eye(s) with plenty of water for more than 15 minutes. Get immediate medical attention.

SKIN CONTACT: Immediately wipe with disposal cloth and wash well with soap and water. If signs / symptoms occur or feel pain continue, consult with a doctor immediately.

OTHER CAUTION: Give artificial respiration in case of no self-respiration.

12 FIRE-FIGHTING MEASURES

For primary fire, use powder, carbon dioxide, dry sand etc.

For larger fire, use Form extinguisher to intercept air. In case of flowing out the combustible material, try to stop it and move the container to safe place immediately. Or transport the contents to other safe tank.

Incomplete combustion, high heat may generate toxic material. Contact leeward worker and neighboring inhabitants to evacuate. Extinguishing should be done from windward side. Wear protections and protector always. Prepare respiratory protection as well. Sprinkle water on and/or around container to prevent increasing temperature by radiant heat

ACCIDENTAL RELEASE

PRECAUTIONS TO HUMAN BODY

Evacuate to leeward

Prohibit to enter the area

Work from windward and make sure to wear protections and protector

PRECAUTIONS TO ENVIRONMENT

Stop leaking with earth and sand, evacuate to safe place and collect into empty container. Dispose not to flow out the dense liquid into public water area such as river. Move flammable material nearby.

REMOVAL METHOD

Collect leaked material into empty container

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED

Move flammable material nearby immediately.

Wear protections and protector always.

Soak up with absorbent material (disposal cloth, paper towel, sand) and collect into empty container.

Flush area with plenty of water. Isobropanol, Butyl cellsolve, Methyl ethyl ketone remove it easily.

Prevent water from entering waterways.

HANDLING OF THIS DATA SHEET

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