



Sales Enquires/Ordering: sales@raplas.com
Technical Support/Serviceing: support@raplas.com
Accounts Queries: account@raplas.com

MATERIAL SAFETY DATA SHEET: EP-RR60WH

UV Curable Resin

General

Product name: EP-RR60WH
Supplier: RAPLAS International Limited
Address: 501,113 Argyle Street, Monkok, Hong Kong.
Telephone: +86 755 29722980, Fax: +86 755 81733189
Emergency number: +86 755 29722980

Composition / ingredients

Chemical characterization: Mixed Monomers and Oligomers.

Hazards identification

ROUTES OF ENTRY:

Dermal, Inhalation, Ingestion

GENERAL HEALTH EFFECTS:

Irritant to skin, eyes and respiratory tract. Effects may be delayed for several hours.

ACUTE:

- Skin Contact: Potential irritant and can cause allergic skin reaction. Repeated or prolonged contact may cause sensitization.
- Eye Contact: Liquid, vapors, or mists may cause eye irritation. Protect eyes from repeated or prolonged contact.
- Inhalation: May cause irritation to upper respiratory tract upon prolonged or repeated inhalation.
- Ingestion: May be harmful if swallowed. Gastrointestinal tract irritation may result.

CHRONIC:

There are no known chronic effects associated with this material.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

No data available. Repeated and prolonged overexposure may increase the potential for adverse health effects.

EC RISK/SAFETY PHRASES: R36/37/38, R43, R51/53, S24/25, S36/37, S61

HMIS Classification:

Health	2
Flammability	1
Reactivity	2
PPE	B

First aid measures

SKIN CONTACT:

Remove and isolate contaminated clothing and shoes. Remove excess material from skin with clean cloth. Flush skin with running lukewarm water. Wash affected areas using mild soap.

EYE CONTACT:

Flush the eye and under lids with warm water for 15 minutes. Remove any contact lenses during the flushing. Get immediate medical attention if symptoms persist.

INHALATION:

Move subject to fresh air and keep warm. If subject is not breathing, administer artificial respiration. If breathing is difficult, have qualified personnel administer oxygen and get medical attention.

INGESTION:

If appreciable quantities are swallowed, seek immediate medical attention. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Fire-fighting measures

FLASHPOINT:

>200° F (> 93.3°C) based on evaluation of constituent materials.

XI - IRRITANT

N – DANGEROUS TO THE ENVIRONMENT

EXTINGUISHING METHOD:

Water fog, carbon dioxide (CO₂) or dry chemical

AUTO-IGNITION TEMPERATURE:

Not established

Evacuate area of all non-emergency personnel. Fire fighters must wear full emergency equipment with self-contained breathing apparatus. At elevated temperatures hazardous polymerization may occur causing container rupture and in extreme cases, explosion. Fight fires from upwind and cool intact containers with water spray or stream at maximum range.

Accidental release measures

Remove all sources of ignition and ventilate area. Avoid skin and eye contact. Use respiratory protection. Absorb with inert materials such as dry clay or sand and place in closed container for disposal as solid waste in accordance with all applicable regulations. If spilled in water, contain/minimize dispersion and collect. Report per regulatory requirements.

Handling and storage

HANDLING:

Avoid any unnecessary contact. Use protective clothing specified below.

STORAGE:

Store away from heat and sunlight to prevent polymerization. Polymerization initiators include peroxides, strong oxidizers, aluminum, copper, copper alloys, carbon steel, iron, rust, and strong bases.

Exposure controls / personal protection

HAND PROTECTION:

Use nitrile, butyl, neoprene or other gloves that are resistant to chemicals. Replace immediately if punctured or torn or when a change of appearance (color, elasticity, shape) occurs. A minimum of 0.45mm thick, nitrile gloves for long duration exposure (up to 4 hours on most UV/EB-curing resins) or mechanical handling activities. Single use, disposable nitrile gloves are recommended for short duration exposures not exceeding 30 minutes, in situations where only splashes are likely.

EYE PROTECTION:

Use splash-proof safety goggles, safety glasses, or face shields that are ANSI approved to prevent eye contact. Eyewash availability is also recommended.

SKIN PROTECTION:

Protective or disposable outer clothing is recommended. Protective clothing must be cleaned thoroughly after each use.

RESPIRATORY PROTECTION:

Use local exhaust to control vapors and mists. Use of NIOSH approved respirators for organic vapors, is recommended where TLV is exceeded.

Physical and chemical properties

APPEARANCE, PHYSICAL STATE AND ODOR:

White Liquid, Slight acrylic odor

Viscosity: 270 Cps @ 30°C, Density: 9.4 Lbs/Gallon

SPECIFIC GRAVITY:

1.13

EVAPORATION RATE:

<1

VAPOR PRESSURE (mm Hg):

<0.1 mm Hg

VAPOR DENSITY:

Not established

SOLUBILITY IN WATER:

Practically insoluble VOC: < 0 grams/liter

PH-value:

Not applicable

Stability and reactivity

STABILITY:

This material is stable under recommended storage and handling conditions.

CONDITIONS TO AVOID:

Excessive heat, ignition sources, exposure to sunlight and contamination with dirt and other foreign materials.

SUBSTANCES TO BE AVOIDED:

Polymerization initiators including peroxides, strong oxidizing agents, aluminum, copper, copper alloys, carbon steel, iron, rust and strong bases.

INCOMPATIBILITY:

No data available

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal oxidation or pyrolysis (as in fire) may yield carbon dioxide, carbon monoxide and volatile organic fragments which are flammable, irritating or toxic.

HAZARDOUS POLYMERIZATION:

Under certain conditions (excess temperatures and contamination) hazardous polymerization may occur. Avoid high temperature and contamination with foreign materials.

Toxicological information

TOXICOLOGICAL DATA:

Slightly toxic by ingestion. Prolonged or repeated exposure may result in sensitization.

LD50 – Not determined, LC50 – Not determined

REPRODUCTIVE TOXICITY:

Not determined

TERATOGENICITY:

Not determined

MUTAGENICITY:

Not determined

CARCINOGENICITY:

IARC? No, NTP? No, OSHA? No

COMPONENTS:

Data from available scientific literature on the components of this material, which have been identified as hazardous chemicals under the criteria of the OSHA Hazard Communications Standard (29 CFR 1910.1200) or the Canadian Hazardous Act are discussed below:

Mixed Monomers and Oligomers - Has an estimated oral (rat) LD50 of 5000 mg/kg. Practically Nontoxic. Irritating to skin (rabbit). Slight eye irritant. Rat inhalation risk test: Sat. Vapor/20C – No deaths after 7 Hr. exposure, st. vapor.

Ecological information

No determination has been made on ecological impact. However, it is highly recommended to prevent contamination of the environment with this product, i.e. soil, landfills, drains, sewers, surface waters, etc.

Disposal considerations

Dispose of this product in accordance with all applicable laws and regulations.

Transport information

Transport this product in accordance with all applicable laws and regulations. This product, as supplied, is not regulated nor classified as a hazardous material/dangerous good by United States Department of Transportation (DOT), the International Civil Aviation Organization (ICAO), the International Maritime Organization (IMO), the Canadian Transportation of Dangerous Goods Act (TDG), or the International Air Transport Association (IATA).

Regulatory information

This Material Safety Data Sheet has been formatted to the best of our ability in accordance with American National Standards Institute (ANSI), European Communities (EC), and contains hazard criteria and all information required by the Canadian Controlled Products Regulation (CPR) in regard to this product.

INTERNATIONAL REGULATIONS:

US Inventory Status:

Toxic Substances Control Act (TSCA) Section 8(b) – Inventory Status:

All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Canadian Inventory Status:

All components of this product are currently listed on the Canadian Domestic Substance List (DSL) or the Canadian Non-Domestic Substance List NDSL.

European Inventory Status:

All components of this product are listed on the European Inventory of Existing Commercial Substances (EINICS) or the European List of Notified Chemical Substances (ELINCS). This product is classified and labeled in accordance with EC directive.

Other information

Hazardous Materials Identification System (HMIS) TWA – Time Weighted Average

4 = Severe Hazard TLV – Threshold Limit Value

3 = Serious Hazard STEL – Short Term Exposure Limit

2 = Moderate Hazard CAS# - Chemical Abstract Service Number

1 = Slight Hazard NTP – National Toxicology Program

0 = Minimal Hazard PEL – Permissible Exposure Limit

IARC - International Agency for Research on Cancer

ANSI – American National Standards Institute

EU Risk/Safety Phrases

R36/37/38 = Irritating to eyes, respiratory system and skin.

R43 = May cause sensitization by skin contact.

R51/53 = Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S24/25 = Avoid contact with skin and eyes.

S36/37 = Wear suitable protective clothing and gloves

S61 = Avoid release to the environment. Refer to special instructions/safety data sheets.

Disclaimer:

To the best of our knowledge, the product information contained herein is based upon data believed to be reliable, however makes no warranty and disclaims any liability whatsoever for its accuracy or completeness. Since the actual use of the product is beyond our control, no guarantee expressed or implied, is made by RAPLAS International Ltd as to the effects of such uses nor does RAPLAS International Ltd assume liability arising out of the use of this product by others. It remains the responsibility of the user to ensure that the use of the product herein is in accordance with all applicable laws and regulations.