

## Material Safety Data Sheet

- 1. Identification:** Product R series: R260-A1, R220-B, R221, R262-Mod5
- 2. Product Class:** Mixture of Acrylates  
Generic Name: Acrylate liquid compound resins
- 3. Ingredients**

Ingredients	CAS No.	Content (%)
Urethane methacrylate	72869-86-4	20 -50
Pentaerythritol Triacrylate	3524-68-3	5-10
2-Propenoic acid 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester ; Trimethylolpropane triacrylate	15625-89-5	20-50
Heavy alkylate naphtha (additives)	64741-65-7	0.2-1.0
2-hydroxy-2-methyl-1-phenyl-1-propane	7473-98-5	5-15
1H,1H-Perfluoro-n-octyl-acrylate	307-98-2	0.5-80

### 4. Physical Data

D.O.T.Hazard class: None

Flammability: No

Flash point: > 220 °C

Volatiles by wt. < 0.1%

Water Soluble: Not

Explosion Data:

Sensitivity to Impact: None

Sensitivity to static discharge: None

Other factors: exposure to high heat above 45 degree C or UV light/sun light may cause a nonhazardous polymerization reaction.

### 4. Hazard Rating:

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 1

PROTECTIVE: B

Hazard Rating: 4 = Extreme, 3 = serious, 2 = Moderate, 1 = Slight, 0 = minimal, B = Gloves and Eye Protection

### 5. Reactivity Data and Health Hazard Data

The acrylate resins are classified as irritant.

Stability: Stable materials.

Physical Hazards: Unstable (reactive) upon depletion of inhibitor

Swallowing: do not take internally – swallowing may cause nausea, vomiting and diarrhea.

Skin contact: Skin irritation potential.

Inhalation: no evidence of adverse effects from vapors generated at ambient temperatures and atmospheric pressure from available information.

Eye contact: avoid eye contact; wear eye protective glasses with side-shield.

Carcinogenicity: no

Teratogenicity: no

Reproductive toxicity: no

mutagenicity: no

Acute Health Effects: Skin and eye irritant

Chronic Health Effects: No appropriate human or animal chronic health effects data are known to exist.

#### Route of Exposure

**INHALATION:** No significant signs or symptoms indicative of adverse health hazard are expected to occur at standard conditions due to the low volatility of the adhesives. Aerosols, or vapors which may be generated at elevated processing temperature may cause respiratory tract irritation. Symptoms of irritation may include coughing, mucous production and shortness of breath.

**EYE CONTACT – Primary route**

Although no appropriate human or animal health effects data are known to exist, these materials are expected to cause slight eye irritation.

**SKIN ABSORPTION**

Although no appropriate human or animal health effects data are known to exist, these materials are not expected to be a health hazard by skin absorption.

**SKIN IRRITATION – Primary route**

Although no appropriate human or animal health effects data are known to exist, these materials are expected to cause slight skin irritation, and may cause an allergic skin reaction (sensitization) in susceptible individuals upon repeated exposure.

**INGESTION**

No appropriate human or animal health effects data are known to exist.

#### **6. Emergency First Aid Procedures**

Swallowing – wash mouth out with water – call physician.

Skin contact: wash skin with water and soap.

Inhalation: get in some fresh air, and call physician if any symptoms appear.

Eyes: Flush eyes with water for at least 15 minutes and call physician.

Emergency medical treatment procedures – remove clothing and rinse skin with water. Look for burns or sign of allergic reaction.

#### **7. Spill and Leak Procedures**

Do not discharge to waterways

Clean up using inert solvent and dispose the spilled acrylate solvent mixture under Federal, State and local regulations. Avoid over loading plant biomass.

#### **9. Fire and Explosion Procedures**

These acrylate resins are 100% solid and are not classified as flammable materials (flash point > 220 °C)

Fire fighting procedure for the event of small fires: water will reduce the intensity of the flames. Fire extinguisher can be used to put out the small fires.

#### 10. **Personal Protection**

Hands: Protect hands with Nitrile or Latex gloves

Eyes: Eye glasses with side-shield or goggles are required

Ventilation: general room ventilation is expected in normal usage and storage. Special local ventilation may be needed if used at elevated temperatures.

Other hygienic and work practices: use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.

11. **Storage Requirements:** Store at 15 to 27°C

12. **Special Shipping Information:** UN-Number: Not regulated

#### 13. **Special Label Information:**

Use Statement:

For Industrial Use Only

Keep Out of Reach of Children

Signal Word

Caution

Physical Hazard

Unstable (reactive) Upon Loss of Inhibitor

Health Hazards

May Cause Slight Eye and Skin Irritation

May Cause Allergic Skin Reaction

Precautionary Measures

Do Not Handle Near Heat, Sparks, or Open Flame

Avoid Oxidizing Agents

Use Only with Adequate Ventilation/Personal Protection

Keep Container Closed When Not In Use

Avoid Contact with Eyes, Skin, and Clothing

Avoid Contact with Skin

Do Not Take Internal, Taste or Swallow

Prevent Contact with Food, Chewing, or Smoking Materials

Wash Thoroughly After Handling

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