



MATERIAL (SAFETY DATA SHEET)

PRODUCT PLATE GLASS REPAIR RESIN

I. Product Identification

Product Code: 30271, 30279
Synonyms: Not applicable

Recommended use of the chemical and restrictions on use:

Identified uses: Adhesives. Uses advised against: No Information available

Manufacturer/Supplier
Delta Kits Inc.
1090 Bailey Hill Rd. Suite A
Eugene Or. 97402
Tel: 800-548-8332
Fax: (541)345-1591

Chemtel
Emergency Telephone number
(800)-255-3925 US
(813)-248-0585 Int.

II. Hazard identification

Physical state: Liquid Appearance: Transparent Color: Colorless Odor: Characteristic
Classification: OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Signal word
DANGER



Target Organ Effects: Skin, EYES, inhalation, ingestion

GHS label elements, including precautionary statements

Hazard statements: H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary Statements - Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/clothing/eye and face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well ventilated area.

Precautionary Statements - Response: IF exposed or concerned, get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Get medical advice/attention if you feel unwell.
Collect spillage.

Precautionary statements - Storage: Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal: Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC): NONE

Other information: May be harmful if swallowed.
Unknown acute toxicity: 0% of the mixture consists of ingredients(s) of unknown toxicity

III. Composition

This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 19101200)

Chemical Name	Weight-%	C.A.S. number	Trade Secret	
Isobornyl Acrylate	10-30	5888-33-5	*	STOT SE 3(H335), Skin Irrit. 2 (H315), Eye Irrit. 2 (H319), Aquatic Acute 2 (H401), Aquatic Chronic 2 (H411)
2-Hydroxyethyl Methacrylate	10 - 30	868-77-9	*	Skin Irrit. 2 (H315), Eye Irrit. 2 (H319), Skin Sens. 1 (H317)
Acrylic Acid	1-5	79-10-7	*	Flam. Liq. 3(H226), Acute Tox. 4 (H302), Acute Tox. 4 (H312), Acute Tox. 4 (H332), Skin Corr. 1A(H314), STOT SE 3(H335), Aquatic Acute 1 (H400).
Silane Coupling Agent	1-5	Proprietary	*	Eye Dam. 1 (H318)

Remaining ingredients are not considered hazardous in accordance with the Globally Harmonized System (GHS)
* The exact percentage (concentration) of composition has been withheld as a trade secret.

IV. First Aid Measures

General advice: INCASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye Irritation: Flush eyes with water at least 15 minutes, get medical attention if eye irritation develops or persists.
Skin Contact: Wash off immediately with plenty of water, Get medical attention if irritation develops or persists.
Inhalation: Move to fresh air, If symptoms persist, call a physician.
Ingestion: If swallowed, Rinse mouth, Get medical attention.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Main Symptoms: No information available.
Indication of any immediate medical attention and special treatment needed
Note to physicians: Treat symptomatically.

V. Fire-Fighting Measures

Suitable extinguishing media: Use CO2, dry chemical, or foam.
Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
Hazardous decomposition products: Hazardous decomposition products due to incomplete combustion.
Explosion data: Sensitivity to Mechanical Impact : NONE Sensitivity to Static Discharge: NONE
Protective equipment and precautions for fire fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

VI. Accidental Release Measure

Personal safety: Ensure adequate ventilation. Wear Suitable gloves and eye/face protection.
Environmental precautions: Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information. Local authorities should be advised if significant spillages cannot be contained.
Other information: See Section 12 for additional Ecological information.
Methods for containment: Prevent further leakage or spillage if safe to do so.
Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

VII. Storage and Handling Procedures.

Precautions for safe handling
Advice on safe handling: Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation. Protect from light.

Conditions for safe storage, including any incompatibilities
Technical measures/Storage conditions: Keep container tightly closed in a dry and well ventilated place, Protect from light.
Incompatible products: Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

VIII. Exposure Controls and Personal Protection

Control parameters
Exposure Guidelines

Chemical name	ACGIH TLV	OSHA	NIOSH IDLH
Acrylic Acid	TWA: 2PPM S*	(vacated) TWA: 10ppm (vacated) TWA: 30 mg/m³ S*	TWA: 2 ppm TWA: 6 mg/m³

Legend

ACGIH(American Conference of Governmental Industrial Hygienists)

TLV - Threshold Limit Value

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

PEL - Permissible Exposure Limits

NIOSH IDLH

Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures:

Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side-shields. If splashes are likely to occur, wear, Goggles.

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene measures:

When using, do not eat, drink or smoke, Handle in accordance with good industrial hygiene and safety practice, Wear suitable gloves and eye/face protection, Wash hands before breaks and at the end of workday, Avoid breathing vapors, mist or gas, Regular cleaning of equipment, work area and clothing is recommended.

IX. Physical and Chemical Properties.

Information on basic physical and chemical properties

Physical state

Liquid

Appearance:

Transparent

Odor:

Characteristic

Color:

colorless

Odor threshold:

No information available

Property

Values/Remarks/Method

Property

Values/Remarks/Method

Flash Point:

213°F (101°C)

Melting point/freezing point

No information available

Density:

1.08g/ml

Evaporation Rate

No information available

Dynamic viscosity :

3,600 cP

Specific Gravity

No information available

Water Solubility Values

Practically insoluble

Auto Ignition temperature

No information available

pH:

No information available

Boiling point/boiling range

No information available

Flammability (Solid, gas)

No information available

Vapor pressure:

No information available

Flammability Limit in Air (upper and Lower)

No information available

Vapor density:

No information available

Solubility in other solvents

No information available

Decomposition temperature

No information available

Partition coefficient: n-octanol/water

No information available

Kinematic viscosity

No information available

Explosive properties

No information available

Oxidizing properties

No information available

Other Information

Softening point

No information available

Density

No information available

VOC Content(%)

4.97249980829656

Bulk density

No information available

X. Stability and reactivity

Reactivity

No information available

Chemical stability:

Stable under normal conditions.

Possibility of Hazardous Reactions:

Hazardous polymerization: None under normal processing.

Conditions to avoid:

Protect from light, Heat, flames and sparks.

Incompatible materials:

Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers. Protect from light and heat.

Hazardous Decomposition Products:

no decomposition if stored and applied as directed.

XI. Toxicological Information

Information on toxicological effects:

Acute toxicity

information on likely routes of exposure

Inhalation

There is no data available for this product

Eye contact

There is no data available for this product

Skin Contact

There is no data available for this product

Ingestion

There is no data available for this product

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization:

No information available

Mutagenic effects:

No information available

Reproductive toxicity:

No information available

Carcinogenicity:

Contains no ingredients above reportable quantities listed as a carcinogen.

STOT - single exposure

No information available

STOT - repeated exposure:

No information available

Target Organ Effects:

Respiratory system, EYES, Skin.

Aspiration hazard:

No information available

Other adverse effects:

No information available

Chronic toxicity:

Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.

Numerical measures of toxicity - Product information

0% of the mixture consists of ingredients(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5247 mg/kg
ATEmix (dermal) 5865 mg/kg
ATEmix (inhalation-dust/mist) 15.7 mg/l

Component Information:

Not Applicable

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	
2-Hydroxyethyl Methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	
Acrylic Acid	= 193 mg/kg (Rat) 33500 µg/kg (Rat)	= 280 µL/kg (Rabbit) 295 mg/kg (Rabbit)	= 5300 mg/m³ (Rat) 2 h
Silane Coupling Agent	= 22600 µL/kg (Rat)	= 3970 µL/kg (Rabbit)	

XII. Ecological Information

Ecotoxicity: 0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Acute aquatic toxicity

Product Information: Testing for acute and chronic aquatic effects determined no environmental classification is required.

Component Information:

Chemical name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish
Isobornyl Acrylate	ErC 50 = 2.7 mg/L 96 h (Pseudokirchneriella subcapitata)	EC 50 = 1.1 mg/L 48 h (Daphnia magna)	LC 50 = 1.8 mg/L 96 h (Danio rerio)
2-Hydroxyethyl Methacrylate		EC50 > 380 mg/L 48 h (Daphnia Magna)	LC50 = 227 mg/L 96 h (Pimephales promelas)
Acrylic Acid	EC50 0.04 mg/L 72 h (Desmodesmus subspicatus)	EC50 = 95mg/L 48 h	LC50 = 222 mg/L 96 h (Brachydanio rerio)

Persistence and degradability: No information Bioaccumulation: No information

Component information:

Chemical name	log Pow
Isobornyl Acrylate	4.21
2-Hydroxyethyl Methacrylate	0.47
Acrylic acid	0.46

Mobility in soil: No product level data available.

XIII. Disposal considerations

Waste treatment methods:

Waste Disposal Methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging: Dispose of in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

XIV. Transportation information

DOT, ICAO/IATA, IMDG/IMO: Not regulated

XV. Regulatory Information

International Inventories

TSCA	Complies	AICS	Not listed
DSL/NDSL	Complies	ENCS	Not listed
EINECS/ELINCS	Complies	NZIoC	Not listed
IECSC	Complies	PICCS	Not listed
KECL	Complies	ECSI	Not listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 AICS - Australian Inventory of Chemical Substances
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 NZIoC - New Zealand Inventory of Chemicals
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ECSI - Taiwan Existing Substance Inventory

US Federal Regulations

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	Sara 313 - Threshold Values %
Acrylic Acid	1.0

Sara 311/312 Hazard Categories:

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Cercla: This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	CERCLA/Sara RQ	Hazardous Substances RQ's	Reportable Quantity (RQ)
Acrylic acid		5000 lb.	RQ 5000 lb. final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or cause birth defects or other reproductive harm.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Acrylic acid	X	X	X
Methyl alcohol	X	X	X

XVI. Other information

Issue Date: 2015-02-13

Revision Date: 2017/06/30

To the best of our knowledge, the information contained herein is accurate. However, Delta Kits Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.