

MATERIAL (SAFETY DATA SHEET)

PRODUCT MAGNIBOND

Page 1 of 2 **Product Identification**

Product code: 30000, 30001, 30002, 30003, 30004, 30008, 30009, 30500, 30700, 30701, 30881

Polyurethane Oligomer Mixture Synonyms:

Manufacturer/Supplier

Emergency Telephone number Delta Kits Inc. 1090 Bailey Hill Rd. Suite A (800)-255-3925 US (813)-248-0585 Int. Eugene Or. 97402

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Hazard identification

Physical state: I Liquid Hazard description: Irritant Appearance: Transparent

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)
Target Organ Effects: Category 3 Skin, EYES, inhalation, ingestion

Signal word DANGER



GHS label elements, including precautionary statements

Hazard statements: Causes skin irritation and serious eye damage. May cause an allergic skin reaction and respiratory irritation. May be harmful if swallowed

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: Get medical advice attention if you feel unwell.

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: Rinse mouth

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

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

III. Composition

Chemical Name	Weight-%	C.A.S. number	Trade Secret
Isobornyl Acrylate	30 - 60	5888-33-5	*
2-Hydroxyethyl Methacrylate	10 - 30	868-77-9	*
octyl acrylate	5 - 10	2499-59-4	*
decyl acrylate	5 - 10	2156-96-9	*
Acrylic Acid	1-5	79-10-7	*
Photoinitator	1-5	Proprietary	*
Silane Coupling Agent	1-5	Proprietary	*

^{*} The exact percentage (concentration) of composition has been withheld as a trade secret.

IV. First Aid Measures

Eye Irritation: Immediately flush eyes with plenty of water for at least 15 minutes. In case of skin contact, wash thoroughly with soap and water. Remove affected person to fresh air. Skin Contact:

Inhalation: Ingestion: Low toxicity; Seek medical attention.

If any symptoms persist seek medical attention. 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.

Carbon dioxide CO2), carbon monoxide (CO), oxides of nitrogen (NOX), dense black smoke. Specific hazards arising from the chemical: Hazardous decomposition products due to incomplete combustion

and full protective gear.

Hazardous combustion products: Explosion data: NONE

Protective equipment and precautions for fire fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

VI. Accidental Release Measure

Methods for cleaning up:

Personal safety: Ensue adequate ventilation. Wear Suitable gloves and eye/face protection.

Environmental safety: 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. Soak up with inert absorbent material (e.g. sand, silica get, acid binder, universal binder, sawdust.

VII. Storage and Handling Procedures.

Storage Keep container tightly closed in a dry and well-ventilated place.

Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation, Protect from light, Handling:

Incompatible products: Amines, Strong oxidizing agents, Strong acids, Strong bases, Oxygen scavengers, Thiosulfates.

VIII. Exposure Controls and Personal Protection

Chemical name	ACGIH TLV	OSHA	NIOSH IDLH
Acrylic Acid	TWA: 2PPM S*	(vacated) TWA: 10ppm	TWA: 2 ppm
		(vacated) TWA: 30 mg/m3 S*	TWA: 6 mg/m ³

Respiratory: Positive fresh air exhaust should be provided in the work area; respiratory equipment is unnecessary in normal use. Skin:

Avoid skin contact. Wear gloves and impervious protective clothing if frequent direct contact is likely. Do not wear contact lenses. Chemical safety goggles are recommended. Eyes:

IX. Physical and Chemical Properties.

Appearance: Transparent 214°F (101°C) Density: Melting point/freezing point Not Determined Not Determined Ignition temperature: Evaporation Rate Specific Gravity Odor : Characteristic Not Determined Dynamic viscosity: 18 cP Not Determined Water Solubility Values Not Determined Auto Ignition Not Determined Explosive properties Oxidizing properties Not Determined Not Determined

Stability and reactivity

Stability Stable under normal conditions

Hazardous Decomposition Products:

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

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)	
octyl acrylate	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
decyl acrylate	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	
Acrylic Acid	= 33500 μg/kg (Rat	= 280 μL/kg (Rabbit)	= 5300 mg/m ₃ (Rat) 2 h
Silane Coupling Agent	= 22600 μL/kg (Rat)	= 3970 μL/kg (Rabbit)	

Delayed and immediate effects as well as chronic effects from short and long-term exposure. Sensitization: May cause sensitization of susceptible persons.

Mutagenic effects: No information available.

Reproductive toxicity: No information available.

Carcinogenicity: Contains no ingredients above reportable quantities listed as a carcinogen.

Numerical measures of toxicity - Product information

Unknown acute toxicity 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)	ATEmix (dermal)	ATEmix (inhalation-dust/mist)	
4067 mg/kg	4375 mg/kg	10.9 mg/l	

XII. Ecological Information

Ecotoxicity: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

7.2793% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Acute aquatic toxicity

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 48h (Daphnia Magna)	LC50 = 227 mg/L 96 h Pimephales promelas)
Acrylic Acid	EC50 0.17 mg/L 96 h (Pseudokirchneriella subcapitata) EC 50 0.04 mg/L 72 h (Desmodesmus subspicatus)	EC50 = 95mg/L 48h	LC50 = 222 mg/L 96 h (Brachydanio rerio)
Photoinitator	EC50 14.4 mg/L 72 h (Green algae)	EC50 53.9 mg/L 48 h (Daphnia magna)	

No information Bioaccumulation No information Persistence and degradability

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

XIII. <u>Disposal considerations</u>

Waste Disposal Methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Consult the appropriate state,

regional, or local regulations for additional requirements. Dispose of in accordance with local regulation.

Contaminated packaging:

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, TDG, MEX: Not Regulated

XV. Regulatory Information.

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

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 - 79 10-7	1.0

Sara 311/312 Hazard Categories:

Acute health hazard Chronic Health Hazard Yes No Fire hazard Nο 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
79-10-7			RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	New Jersey	Massachusetts	Pennsylvania
decyl acrylate	X	X	X
octyl acrylate			X
Acrylic acid	X	X	X
Methyl alcohol	X	X	X

XVI. Other information

Issue Date: 2015-02-13 Revision Date: 2016/07/01

gg, the information contained herein is accurate. However, Deta kits Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of sultashibity 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.