



MATERIAL (SAFETY DATA SHEET)

PRODUCT MAGNIBOND

I. Product Identification

Product Code: 30001, 30002, 30003, 30008, 30009, 30111, 30118, 30119, 30500, 30611, 30700, 30701, 30881
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.
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Eugene Or. 97402
Tel: (800) 548-8332
Fax: (541) 345-1591

Version 2/US
Replaces Version: 1/US

Emergency Telephone number
Velocity EHS
(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 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1A H314
Serious eye damage/eye irritation	Category 1 H318
Skin sensitization	Category 1 H317
STOT SE	Category 3 H335

Signal word
DANGER



GHS label elements, including precautionary statements

Hazard statements: H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

Precautionary Statements - Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264.1 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/clothing/eye protection/face protection.

Precautionary Statements - Response: IF exposed or concerned, get medical advice/attention.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing

P310: IF SWALLOWED: Immediately call a POISON CENTER or Doctor.

P361+P364: Take off immediately all contaminated clothing and wash it before reuse

P363: Wash contaminated clothing before reuse

Precautionary statements - Storage: P405: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal: P501.1: 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 (29 CFR 1910.1200)

Chemical Name	Weight-%	C.A.S. number	Trade Secret
3,3,5-trimethylcyclohexyl acrylate	>= 25 < 50 %	86178-38-3	*
Isobornyl Acrylate	>= 10 < 20 %	5888-33-5	*
2-Hydroxyethyl Methacrylate	>= 10 < 25 %	868-77-9	*
3-Methacryloxypropyltrimethoxysilane	>= 1 < 10 %	2530-85-0	*
Maleic acid	>= 1 < 7,4 %	110-16-7	*
Acrylic Acid	>= 3 < 5 %	79-10-7	*
Additional Remarks: DSD-Directive 67/548/EEC, Annex I Note D; CLP Regulation (EC) No 1272/2008, Annex VI, Note D			
2-Ethylhexylacrylate	>= 10 < 20 %	103-11-7	*

Additional Remarks: DSD-Directive 67/548/EEC, Annex I Note D; CLP Regulation (EC) No 1272/2008, Annex VI, Note D

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

IV. First Aid Measures

General advice:

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. In any case show the physician the Safety Data Sheet.

Inhalation:

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately

Skin Contact:

Wash off immediately with soap and water. Consult a doctor if skin irritation persists

Eye Contact:

Separate eyelids, wash the eyes thoroughly with water (15min.). Summon a doctor immediately

Ingestion:

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water to be drunk in small gulps. DO NOT induce vomiting

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

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation

Note to physicians:

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 combustion products:

In case of combustion evolution of dangerous gases possible

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. Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

VI. Accidental Release Measure

Personal Precautions, Protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8

Environmental precautions:

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.

Other information:

See Section 12 for additional Ecological information.

Methods for containment and Cleaning up:

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

Reference to other sections:

Refer to protective measures listed in Sections 7 and 8.

VII. Storage and Handling Procedures.

Precautions for safe handling

Advice on safe handling:

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep container tightly closed. Observe the usual precautions for handling chemicals.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.
 Further information on storage conditions: Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight

VIII. Exposure Controls and Personal Protection

Control parameters

Other information: Contains no substances with occupational exposure limits

Exposure Controls

General protective and hygiene measures: Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limits. If this material is handled at elevated temperatures, or under mist-forming conditions without engineering controls, a NIOSH approved respirator must be used.

Hand protection:

Chemical resistant gloves
 Use: Short-term hand contact
 Appropriate Material: nitrile
 Material Thickness: >= 0,4
 Breakthrough time: > 480

Eye Protection:

Safety glasses with side protection shield

Oral Protection:

Nothing as usual in the chemical industry

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:	> 212°F (100°C)	Melting point/freezing point:	No information available
Density:	Not Determined	Evaporation Rate:	No information available
Dynamic viscosity :	18 cP	Specific Gravity:	No information available
Water Solubility Values:	Practically insoluble	Auto Ignition temperature:	No information available
pH:	No information available	Boiling point/boiling:	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

X. Stability and reactivity

Reactivity:

No hazardous reactions when stored and handled according to prescribed instructions

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:

None known.

Hazardous Decomposition Products:

Irritant gases/vapours

XI. Toxicological Information

Information on toxicological effects:

National Toxicology Program (NTP) Components: Maleic acid
 International Agency for research on Cancer(IARC) Components: 2-Ethylhexylacrylat: Acrylic acid

Acute toxicity

ATE > 10,000 mg/kg
 Method: Calculated value according to GHS (e.g. see UN GHS)

Acute dermal toxicity

ATE >10.000 mg/kg
 Method: Calculated value according to GHS (e.g. see UN GHS)

Acute inhalational toxicity

ATE <20 mg/l
 Administration/Form: Dust/Mist
 Method: calculated value according to GHS (e.g. see UN GHS)
 ATE >100 mg/l
 Administration/Form: Vapors
 Method: calculated value according to GHS (e.g. see UN GHS)

Components/Chemical name	Oral LD50	Dermal LD50	Inhalation LC50/4 h
Maleic acid	708 mg/kg (Rat)	1560 mg/kg (Rabbit)	
Acrylic acid	= 1500 mg/kg (Rat)	>= 2000 mg/kg (Rabbit)	>= 5,1 mg/l (RAT) Vapors
Hydroxycyclohexyl phenyl ketone	> 2500 mg/kg (Rat)	> 5000 mg/kg (Rat)	> 1 mg/l (Rat) Dust/Mist

Skin corrosion/irritation: not determined
 Serous eye damage/irritation: not determined
 Sensitization (Components): not determined

Maleic acid

Route of exposure: Dermal
 Species evaluation: guinea pig sensitizing

Acrylic acid

evaluation: non sensitizing

Hydroxycyclohexyl phenyl ketone

Species evaluation: guinea pig non sensitizing

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: No information available
 STOT - single exposure: No information available
 STOT - repeated exposure: No information available
 Target Organ Effects: No information available
 Experience in practice: Inhalation may lead to irritation of the respiratory tract.
 Other adverse effects: No toxicological data are available.

XII. Ecological Information

Toxicity: not determined

Fish toxicity	Daphnia magna	Algae	Fish	Bacteria
Components/Chemical name	EC50 48h	ErC50 72h	LC50 96h	EC20 3h
Maleic acid	42,81 mg/l	74,35 mg/l Algae	75 mg/l rainbow trout(Oncorhynchus mykiss)	
Acrylic acid	= 47 to 95 mg/kg	0,13 mg/l Scenedesmus subspicatus	27 mg/l rainbow trout(Oncorhynchus mykiss)	
Hydroxycyclohexyl phenyl ketone	53,9 mg/l	14,4 mg/l Scenedesmus subspicatus	24 mg/l Zebra fish (Brachydanio rerio)	>100 mg/l activated sludge

Persistence and degradability

General information: Not determined

Biodegradability Components

Maleic acid Value: 97%; Duration of test: 28 days; Evaluation: Readily biodegradable (according to OECD criteria)

Chemical oxygen demand (COD) Components

Acrylic acid Value: =1,48 kg/kg

Biochemical oxygen demand (BOD5) (Components)

Acrylic acid value = 0,31 kg/kg

Bioaccumulative potential Not determined **Partition coefficient:** n-octanol/water - Not determined

Mobility in Soil Not determined

Results of PBT and vPvB assessment Not determined

Other adverse effects

General Information Not Determined **Ecology:** Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere

XIII. Disposal considerations

Waste Treatment methods

Disposal of product

Dispose of waste according to applicable legislation.

Disposal of container

Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

XIV. Transportation information

Ground transport DOT***

UN number

un3082

UN Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3,3,5-trimethylcyclohexyl acrylate)

Transport hazard class(es)

Class 9

Label 9

Packing group

Packing group III

Remarks This product is not subject to any other provisions of ADR provided packaging of not more than 5l / 5 kg (SP 375)

Limited Quantity 5 l

Transport category 3

Environmental hazards

ENVIRONMENTALLY HAZARDOUS

Marine transport IMDG/GGVSee ***

UN number

UN 3082

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic acid)

Transport hazard class(es)

Class 9

Packing group III

Remarks The product can be transported in accordance with IMDG code paragraph 2.10.2.7 provided packaging not more than 5l / 5kg

Environmental hazards

Marine Pollutant

Air transport ICAO/IATA***

UN number

UN 3082

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acrylic acid)

Transport hazard class(es)

Class 9

Packing group III

Remarks This product is not subject to any other provisions of IATA provided packaging of not more than 5l / 5 kg (A197)

Environmental hazards

ENVIRONMENTALLY HAZARDOUS

XV. Regulatory Information

International Inventories

TSCA: Contained in or exempt

IECSC: Contained in

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. 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 372.65:

Chemical name	Sara 313 - Threshold Values %
Acrylic Acid	1.0

Clean water Act (CWA) Section 311 Toxic Pollutants (40 CFR116.4):

Components: Maleic acid

Clean water Act (CWA) Section 307 Toxic Pollutants (40 CFR401.15):

This product does not contain any listed components.

Clean Air Act (CAA) Section 112 Regulated Toxic Substances And Threshold Quantites for

Components: 2-Ethylhexylacrylat; Acrylic acid

Accidental Release Prevention (40 CFR 68.130 Table 1+2)

Clean Air Act (CAA) Section 112 Regulated Toxic Substances And Threshold Quantites for

The product does not contain any listed components.

Accidental Release Prevention (40 CFR 68.130 Table 3+4)

US. EPA Emergency Planning and Community Right-to-know Act (EPCRA) SARA Title III Section 302

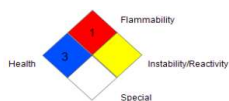
The product does not contain any listed components.

Extremely Hazardous Substance (40 CFR 355)

California Proposition 65

Warning! This product may contain trace quantities of substance(s) known to the state of California to caus cancer and/or reproductive toxicity - not added as a part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

NFPA Rating Information



HMIS® Rating information

Health	3
Flammability	1
Physical Hazard	<input type="checkbox"/>
Personal Protection	<input type="checkbox"/>

XVI. Other information

Issue Date: 2023/02/16

Revision Date: 2023/11/16

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.

