MATERIAL (SAFETY DATA SHEET)

PRODUCT PREMIUM PIT RESIN

Safety Data Sheet according to Appendix D, OSHA Hazard Communication Standard 29 CFR 1910:1200
Version: 4/US Replaces Version: 3/US

Section I: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier: 30290, 30291, 30298, 30299, 30355, 30655, 30770, 30870, 30885

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixer: Adhesives, sealants

Uses advised against: any non-intended use.

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number:

Velocity EHS
(800)-255-3925 US
(813)-248-0585 Int.

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Skin Irrit.2	H315
Eye Dam. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335

2.2. Label elements

Labelling according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Signal word: WARNING

Pictograms: GHS07

Hazard pictograms

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements

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/protective clothing/eye protection/face protection.

Response

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.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
P305+P351+P338 Continue rinsing.
P312 Call a POISON CENTER or doctor/. If you feel unwell.
P332+P313 If skin irritation occurs:Get Medical advice/attention
P333 If skin irritation or rash occurs:
P337 If eye irritaion persists:
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage/Disposal

P405 Store locked up.
P501.1 Dispose of contents/container to industrial incineration plant.

2.3. Other hazards

No special hazards have to be mentioned

SECTION 3: Composition/information on ingredients

Hazardous ingredients according to OSHA Hazard Communication Standard 29 CFR 1910:1200

3.2. Mixtures

CAS No.	Ingredient	Concentration
5888-33-5	Isobornyl acrylate	>=25 < 50%
868-77-9	2-Hydroxyethyl methacrylate	>=10 < 25%
79-10-7	Acrylic acid	>=3 < 5%
Additional remarks:		
CLP	Regulation (EC) No 1272/2008, Annex VI, Note D	
DSD	Directive 67/548/EEC, Annex I, Note D	
2530-85-0	3-Methacryloxypropyltrimethoxysilane	>=1 < 10%
110-16-7	Maleic acid	>=1 < 6.6%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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.

After inhalation

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

After contact with skin

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

After contact with eyes

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

After ingestion

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

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry powder, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

Other information

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. 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.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. 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.

7.2. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Information

Contains no substances with occupational exposure limit values.

8.2. 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

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A

Hand protection

Chemical resistant gloves

Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	>= 0,4 mm
Breakthrough time	> 480 min

Eye/face protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid	
Colour:	colourless	
Odour:	characteristic	Test method
Odour threshold	Not Determined	
pH-Value:	Not Determined	
Melting point:	Not Determined	
Freezing point	Not Determined	
Initial boiling point and boiling range:	Not Determined	
Flash point:	> 100 C°	
Evaporation rate (ether = 1) :	Not Determined	
Flammability (solid, gas)	Not Determined	
Vapour pressure:	Not Determined	
Vapour Density:	Not Determined	
Density	Not Determined	
Solubility in water	Not Determined	
Solubility(ies)	Not Determined	
Partition coefficient: n-octanol/water	Not Determined	
Ignition temperature	Not Determined	
Decomposition temperature	Not Determined	
Viscosity / dynamic:	Not Determined	
Explosive properties	Not Determined	
Oxidizing properties	Not Determined	

9.2. Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature	Not Determined

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

National Toxicology Program (NTP)

Components: Maleic acid

International Agency for research on Cancer (IARC)
Components: Acrylic acid

Acute oral toxicity
ATE >10,000 mg/kg
Method calculated value according to GHS (e.g. see UN GHS)

Acute oral toxicity (Components)

Chemical name			Species	
Maleic acid	LD50	708 mg/kg	Rat.	
Acrylic acid	LD50	1500 mg/kg	Rat.	
Hydroxycyclohexyl phenyl ketone	LD50	2500 mg/kg	Rat	

Acute dermal toxicity
ATE >10,000 mg/kg
Method calculated value according to GHS (e.g. see UN GHS)

Acute dermal toxicity (Components)

Chemical name			Species	
Maleic acid	LD50	1560 mg/kg	Rabbit	
Acrylic acid	LD50	>=2000 mg/kg	Rabbit	
Hydroxycyclohexyl phenyl ketone	LD50	>5000 mg/kg	Rat.	

Acute inhalational toxicity
ATE >20 mg/l
Administration/Form Dust/Mist
Method calculated value according to GHS (e.g. see UN GHS)

Acute inhalative toxicity (Components)

Chemical name		Method	Dose	[H]	Species	Administration/Form
Acrylic acid	LC50	>=5,1 mg/l	4h	Rat.	Vapors	
Hydroxycyclohexyl phenyl ketone	LC50	> 1 mg/l	4h	Rat.	Dust/Mist	

Skin corrosion/irritation Not Determined
Serious eye damage/irritation Not Determined
Sensitization Not Determined
Sensitization (Components)
Maleic acid
Route of exposure Dermal
Species guinea pig
evaluation sensitizing
Acrylic acid
evaluation non-sensitizing
Hydroxycyclohexyl phenyl ketone
Species Guinea pig
evaluation non-sensitizing
Subacute, sub chronic, chronic toxicity Not Determined
Mutagenicity Not Determined
Reproductive toxicity Not Determined
Carcinogenicity Not Determined
Specific Target Organ Toxicity (STOT) Not Determined
Experience in practice Inhalation may lead to irritation of the respiratory tract.
Other information No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

Chemical name		Method	Dose	[H]	Species	
Maleic Acid	LC50	75 mg/l	96h	rainbow trout (Oncorhynchus mykiss)		
Acrylic acid	LC50	27 mg/l	96h	rainbow trout (Oncorhynchus mykiss)		
Hydroxycyclohexyl phenyl ketone	LC50	24 mg/l	96h	zebra fish (Brachydanio rerio)		

Daphnia toxicity (Components)

Chemical name		Method	Dose	[H]	Species	
Maleic Acid	EC50	42,81 mg/l	48h	Daphnia magna		
Acrylic acid	EC50	47 to 95 mg/l	48h	Daphnia magna		
Hydroxycyclohexyl phenyl ketone	EC50	53,9 mg/l	48h	Daphnia magna		

Algae toxicity (Components)

Chemical name		Method	Dose	[H]	Species	
Maleic Acid	ErC50	74,35 mg/l	72h	Algae		
Acrylic acid	ErC50	= 0,13 mg/l	72h	Scenedesmus subspicatus		
Hydroxycyclohexyl phenyl ketone	EC50	14,4 mg/l	72h	Scenedesmus subspicatus		

Bacteria toxicity (Components)

Chemical name		Method	Dose	[H]	Species	
Hydroxycyclohexyl phenyl ketone	EC20	> 100 mg/l	3h	activated sludge		

12.2. Persistence and degradability
General information Not Determined
Biodegradability (Components)

Chemical name		Dose		[d]		
Maleic Acid	Value	97%	28d			

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		

12.3. Bioaccumulative potential
General information Not Determined
Partition coefficient: n-octanol/water Not Determined

12.4. Mobility in soil
General information Not Determined

12.5. Results of PBT and vPvB assessment
General information Not Determined

12.6. Other adverse effects
General information Not Determined
General information / ecology Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal recommendations for the product
Dispose of waste according to applicable legislation.
Disposal recommendations for packaging
Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information***

Ground transport DOT

14.1. Un number

UN3082

14.2. Un proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)

14.3 Transport hazard classes)

Class 9

Label 9

14.4 Packing Group

Packing Group III

Remarks The product is not subject to any other provisions of ADR provided packaging of not more than 5l / 5kg (SP375)

Limited Quantitity 5l

Transport Category 3

14.5 Environmental hazards

ENVIRONMENTALLY HAZARDOUS

Marine transport IMDG/GGVSee

14.1. Un number

UN3082

14.2. Un proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)

14.3. Ransport hazard class(es)

Class 9

14.4 Packing Group

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.

14.5. Environmental hazards

Marine Pollutant

Air transport ICAO/IATA

14.1. Un number

UN3082

14.2. Un proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)

14.3. Transport hazard class(es)

Class 9

14.4 Packing Group

Packing Group III

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other information

All components are contained in the TSCA inventory or exempted.
All components are contained in the IECSC Inventory.
All components are contained in the DSL inventory.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302Extremely Hazardous Substance (40 CFR 355)

The product does not contain any listed components.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

Components: Acrylic acid

Clean Water Act (CWA) Section 307 Toxic Pollutants (40 CFR 401.15)

The product does not contain any listed components.

Clean Water Act (CWA) Section 311 Toxic Pollutants (40 CFR 116.4)

Components: Maleic acid

Clean Air Act (CAA) Section 112 Regulated Toxic Substances And Threshold Quantities For Accidental Release Prevention (40 CFR 68.130 Table 1+2)

Components: Acrylic acid

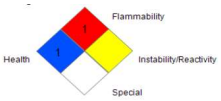
Clean Air Act (CAA) Section 112 Regulated Flammable Substances And Threshold Quantities For Accidental Release Prevention (40 CFR 68.130 Table 3+4)

The product does not contain any listed components.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Warning! This product may contain trace quantities of substance(s) known to the state of California to cause 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

HMIS® Rating Information

Health	1
Flammability	1
Physical Hazard	
Personal Protection	

SECTION 16: Other information

Department issuing safety data sheet

Department product safety

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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