MATERIAL (SAFETY DATA SHEET)

PRODUCT PREMIUM BOND 20

I. Product Identification

Product identifier: 30081, 30082, 30083, 30088, 30089, 30681, 30689, 30705, 30706, 30902
Application of the substance/ the mixture: Adhesive

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

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200
Skin Irrit. 2 H315; Eye Dam. 1 H318; Skin Sens. 1 H317; STOT SE 3 H335

Label elements

Hazard pictograms  Signal word DANGER

Hazard Statements:

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

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/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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P332	If skin irritation occurs:
P333	If skin irritation or rash occurs:
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.

Other Hazards:
No special hazards have to be mentioned.

III. Composition

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

Chemical Name	Weight-%	C.A.S. number
Tetrahydrofurfuryl Acrylate	25-50%	2399-48-6
Isobornyl Acrylate	25-50%	5888-33-5
2-Hydroxyethyl Methacrylate	10-25%	868-77-9
Acrylic Acid	3-5%	79-10-7
Additional remarks: CLP	Regulation (EC) No 1272/2008, Annex VI, Note D	
DSD	Directive 67/548/EEC, Annex I, Note D	
3-Methacryloxypropyltrimethoxysilane	1-10%	2530-85-0
Maleic acid	1-6%	110-16-7

IV. First Aid Measures

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 skin contact:	Wash off immediately with soap and water. Consult a doctor if skin irritation persists.
After eye contact:	Separate eyelids, was 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!

Most important symptoms and effects, both acute and delayed:
Until now no symptoms known so far.

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.

V. Fire-Fighting Measures

Extinguishing media:

Suitable extinguishing media:	Dry powder, Carbon dioxide, Foam
Non suitable extinguishing media:	Full water jet

Special hazards arising from the substance or mixture: In case of combustion evolution of dangerous gases possible.

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.

VI. Accidental Release Measure

Personal precautions, protective equipment and em
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.

Methods and material 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 exposures limit values.

Exposure controls:

General protective and hygiene measures:	Have 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 akin 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: >= 0.4mm
	Breakthrough time > 480 min.
Eye protection:	Safety glasses with side protection shield
Body protection:	Clothing as usual in the chemical industry.

IX. Physical and Chemical Properties.

Form/color	Liquid/colorless	Viscosity	Dynamic	pH-value	Not Determined
Density:	1.1 g/cm³	Melting point/freezing point	Not Determined	Boling Point	Not Determined
Odor :	Characteristic	Evaporation Rate	Not Determined	Water Solubility Values	Not Determined
Upper/lower flammability or explosive limits	Not Determined	Solubility(ies)	Not Determined	Ignition temperature:	Not Determined
Flash Point:	> 212ºF (100ºC)	Decomposition Temp.	Not Determined	Explosive properties:	Not Determined
Flammability (solid, gas)	Not Determined	Oxidizing properties	Not Determined	Odor threshold	Not Determined
Partition coefficient: n-octanol/water	Not Determined	Vapours pressure	Not Determined	Vapours Density	Not Determined
Other information	None Known				

X. Stability and reactivity

Reactivity:	No hazardous reactions when stored and handled according to prescribed instructions.
Chemical stability:	No hazardous reactions known.
Possibility of hazardous reactions:	No hazardous reactions known.
Conditions to avoid:	No hazardous reactions known.
Decomposition temperature:	Not Determined.
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: Acrylic acid

Acute oral/dermal toxicity:

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

Acute inhalational toxicity

ATE	15,9574 mg/l
Administration/Form	Dust/Mist
Method	calculated value according to GHS (e.g. see UN GHS)
ATE	>100 gm/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 g/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	guinea pig
evaluation	sensitizing

Acrylic acid

evaluation	non sensitizing

Hydroxycyclohexyl phenyl ketone

Species	guinea pig
evaluation	non sensitizing

Subacute, subchronic, 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.

XII. Ecological Information

Toxicity:

General information: not determined

Components/Chemical name	Daphnia magna EC50 48h	Algae ErC50 72h	Fish LC50 96h	Bacteria 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

General information	not determined
Partition coefficient: n-octanol/water	not determined

Mobility in soil

General information: not determined

Results of PBT and vPvB assessment

General information: not determined

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.

XIII. Disposal considerations

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

XIV. Transportation information

Transportation method:

Ground transport DOT	Non-dangerous goods.
Marine transport IMGD/GGVSee	The product does not constitute a hazardous substance in sea transport.
Air transport ICAO/IATA	The product does not constitute a hazardous substance in air transport.

XV. Regulatory Information.

Safety, health and environmental regulations/legislation specific for the substances or mixture:

Other information	All components are contained in the TSCA inventory or exempted.
US. EPA Emergency Planning and Community Right-to-Know Act (EPCRA) SARA Title III Section 302 Extremely 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 313 Toxic 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 part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

XVI. Other information

NFPA Rating Information

HMIS® Rating information

HEALTH	3
FIRE	1
REACTIVITY	0
Personal Protection	

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