



MATERIAL (SAFETY DATA SHEET)

PRODUCT PREMIUM PIT POLISH

I. Product Identification

Product code: 30400,30402, 30403, 30404, 30405, 30525
Synonyms: Aqueous Silica/Hydrocarbon Mixture

Manufacturer/Supplier
Delta Kits Inc.
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Eugene Or. 97402
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Chemtel
Emergency Telephone number
(800)-255-3925 US
(813)-248-0585 Int.

II. Hazard identification

Hazard description: Irritant
Appearance: Opaque, tan
Physical state: Liquid
Classification: OSHA Regulatory Status: This chemical is considered an irritant by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye Irritation	Category 2
Skin Irritation	Category 2
STOT (Inhalation-Respiratory Irritation)	Category 3
STOT (Inhalation) RE	Category 2.
Target Organ Effects:	Skin, eyes, inhalation

Signal word
WARNING



GHS label elements, including precautionary statements

Hazard statements: This product may mildly irritate contaminated tissue, especially upon prolonged exposure. Inhalation of high concentrations of vapors can cause central nervous system depression (e.g., dizziness, headaches, and nausea). This product may contain Crystalline Silica, which is known to cause cancer by inhalation when particles are present. If this product is used in a manner that creates dust, use of respiratory protection is required. Contains compound that is a suspect mutagen.

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.

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.

III. Composition

Chemical Name	Weight-%	C.A.S. number
Odorless Mineral Spirits	7.0-13	64742-48-9
Amorphous Silica's	5.0-10.0	68855-54-9
Diatomaceous Earths Mixture	4.0-8.0	61790-53-2
Polydimethyl Siloxane	4.0-8.0	613148-62-9
Morpholine	1.0-5.0	110-91-8
Oleic Acid	1.0-5.0	112-80-1
Crystalline Silica's Mixture	0-5.0/0.-1.0	14464-46-1 /14808-60-7
Water	Balance	7732-18-5

IV. First Aid Measures

Description of first aid measures: Contaminated individuals must be taken for medical attention if any adverse effects occur. Take a copy of the label and SDS to health professional with victim.

Eye Irritation: If this product contaminates the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 20 minutes. Contaminated individual must seek medical attention if adverse effect continues after flushing.

Skin Contact: If this product contaminates the skin, begin decontamination with running water. Minimum flushing for 20 minutes. The contaminated individual must seek medical attention if any adverse effects occur after flushing.

Inhalation: If mists or sprays of this product are inhaled, remove victim to fresh air. The contaminated individual must seek medical attention if any adverse effects occur.

Ingestion: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTR FOR MOST CURRENT INFORMATION. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diuretics (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. If victim is convulsing, maintain an open airway and obtain immediate medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS (ACUTE & CHRONIC): See Sections 2 (Hazard Identification) and 11 (Toxicological Information) for description of possible health effects from exposure to this product. **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Skin disorders, respiratory conditions, and central nervous system conditions may be aggravated by prolonged overexposure to this product.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NEEDED: Treat symptoms and eliminate overexposure.

V. Fire-Fighting Measures

FLASH POINT (Pensky-Martens Closed Tester): .93.3°C(>200°F)

Suitable extinguishing media: Use CO2, dry chemical, or foam.

Unsuitable extinguishing media: None Known

Specific hazards arising from the chemical: This product presents a moderate eye and skin-contact hazard to firefighters. When involved in a fire, this material may decompose and produce irritating vapors and toxic gases (including silicon, nitrogen and carbon oxides).

Hazardous combustion products: Hazardous decomposition products due to incomplete combustion.

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) and full protective gear.

VI. Accidental Release Measure

Personal safety: Wear rubber gloves, splash goggles, and appropriate body protection.

Environmental safety: Avoid release to the environment. Run-off water may be contaminated by other materials and should be contained to prevent possible environmental damage.

Methods for cleaning up: Absorb spilled material with polyadsorb or other suitable, non-reacting absorbent, avoiding generation of aerosols, wearing gloves and aprons. Place spilled material in appropriate container for disposal, sealing tightly.

VII. Storage and Handling Procedures.

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

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

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	
	TWA mg/m³	NE	TWA mg/m³	NE	TWA mg/m³	IDLH mg/m³
Amorphous Silica	NE	NE	NE	NE	NE	NE
Crystalline Silica	NE	NE	Total Dust: 30mg/m³ % SiO ₂ + 2 Resp. Fract. 250 mppcf % SiO ₂ + 5 .1 (vacated 1989 PEL)	0.005 (Resp. dust)	50	
Crystalline Silica, Cristobalite	0.025 (resp. fract.)	NE	½ the value calculated from the respirable dust formula for quartz 0.05 (vacated 1989 PEL)	0.005	25	
Diatomaceous Earth	NE	NE	20 mppcf 6 (vacated 1989 PEL)	6	NE	NE
Mineral Spirits	NE	NE	NE	NE	NE	NE
Morpholine	71 (skin)	NE	70 (skin)	70 (skin)	NE	NE
Oleic Acid	NE	NE	NE	NE	NE	NE
Polydimethyl Siloxane	NE	NE	NE	NE	NE	NE

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.

Eyes: Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations to assist in equipment selection.

IX. Physical and Chemical Properties.

Physical state	Viscous liquid	Color	Opaque, tan	VISCOSITY (cP):	7000-9000
Molecular formula	Mixture	Molecular weight	Mixture	% Volatile	<16
Odor:	Hydrocarbon.	Odor threshold	Not Determined established for product	pH	8.5 to 9.0
Relative vapor density (air = 1)	>1.0	Evaporation rate (nBuAc = 1)	<1.0	Solubility in water	Soluble
Specific gravity (water = 1)	1.01	Melting/Freezing point	Not Determined established for product		
Vapor pressure, mmHg @50°C	<75	Boiling point	80°C (176°F)		

FLASH POINT (Pensky-Martens Closed Tester): .93.3°C(>200°F)

Coefficient of oil/water distribution (partition coefficient): Not Determined

How to detect this substance (identification/warning properties): The odor is a distinguished characteristic of this product.

X. Stability and reactivity

Stability:	Stable under normal conditions.
Hazardous Decomposition Products:	Combustion: Silicon, nitrogen and carbon oxides. Hydrolysis: None known.
Incompatibility:	Strong oxidizing agents, Strong acids, Strong bases
Possibility of hazardous reactions:	None known
Conditions to avoid:	Exposure to water, moist air, and ultraviolet light, Incompatible chemicals, high temperatures.

XI. Toxicological Information

Inhalation:	Inhalation is not anticipated to be a significant route of overexposure to this product. If mists of this product are inhaled, irritation of the nose and other tissues of the upper respiratory system may occur. Inhalation of high concentrations of vapors (as may occur if this material is used in a poorly ventilated area), symptoms are generally alleviated upon breathing fresh air. This product may contain Crystalline Silica, which is known to cause cancer by inhalation. If this product is used in a manner that creates dust (such as application of product with a mechanical polishing wheel), use of respiratory protection is required. Depending on the duration and concentration of overexposure, eye contact can cause irritation and reddening. Symptoms are generally alleviated upon rinsing. Skin absorption is a potential route of exposure for the Morpholine component of this product. Contact can cause reddening, discomfort and irritation. If a large area of skin is involved, system toxicity can occur.
Contact with eyes: Skin absorption:	Ingestion is not anticipated to be a likely route of exposure to this product in the workplace. If this material is swallowed, it may cause headache, nausea and vomiting. While not anticipated to occur, due to product viscosity, aspiration of this liquid may cause life-threatening lung damage. No information available.
Ingestion:	Components, including Crystalline Silica, are known or suspected carcinogens. This product contains compounds that may damage the lungs through acute and chronic inhalation exposure.
Mutagenic effects: Carcinogenicity:	Currently, there is no information on the potential human mutagenic, embryo toxic, teratogenic or reproductive effects from this product. Animal data from the Morpholine component has shown both positive and negative mutagenic results, with no conclusions possible on mutagenicity.
Reproductive toxicity:	

Numerical measures of toxicity - Product information

Chemical Name	Inhalation (Rat-R) (Mouse-M)	Oral (Rat-R) (Mouse-M)	Dermal (Rat) (Mouse-M) (Rabbit-RA)
Amorphous Silica	Currently, there are no toxicological data for this compound		
Crystalline Silica (quartz)	TCLo 50 mg/m ³ 26 week- intermittent: Lungs, Thorax, or Respiration: fibrosis, focal (pneumoconiosis) (R)	NE	NE
Crystalline Silica, Cristobalite	TCLo 70mg/m ³ 5 hours/12 days- intermittent Lungs, Thorax, or Respiration: fibrosis, focal (pneumoconiosis) (M)	NE	NE
Diatomaceous Earth	Currently, there are no toxicological data for this compound		
Mineral Spirits	Currently, there are no toxicological data for this compound		
Morpholine	LC ₅₀ 8000 ppm 8 hours	LD ₅₀ 1738 mg/kg; Kidney/Ureter/Bladder changes in blood vessels or in circulation of kidney	TDLo 9 gm/kg 10 days- intermittent: Liver: fatty liver degeneration; Skin and Appendages: Primary irritation (after topical exposure); Related to Chronic Data: death. (RA)
Oleic Acid	TCLo 30 mg/m ³ 4 ours: Behavioral: alteration of classical conditioning; Blood changes in serum composition(e.g. TP, bilirubin, cholesterol); Immunological including Allergic: hypersensitivity delayed. (R)	LD ₅₀ 25000 mg/kg	TDLo 1500mg/kg 3 days-intermittent: Blood: other changes (M)
Polydimethyl Siloxane	NE	24 gm/kg; Gastrointestinal: hypermotility, diarrhea (R)	LD50 2gm/kg; Behavioral: food intake (animal); Gastrointestinal: hypermotility, diarrhea; Skin and appendages: dermatitis. (RA)

XII. Ecological Information**Mobility**

Morpholine: This product has not been tested for mobility in soil. The following information is available for some components.
Using a measured log octanol/water partition coefficient (log Kow) of -0.86 and a regression equation, the estimated Koc for this compound is 8. The Koc estimated from molecular structure is 5. According to a suggested classification scheme, this estimated Koc suggests that this compound is highly mobile in soil.

Oleic Acid**Persistence and biodegradability****Morpholine:****Oleic Acid**

This product has not been tested for persistence or biodegradability. The following information is available for some components.
If released to soil, this compound may volatilize from dry soil surfaces, but not from moist soil. This material in soil will move with soil moisture and is expected to leach extensively.

Bio-accumulation potential**Morpholine:****Oleic Acid**

Because this compound is miscible with water and has a very low measured octanol/water partition coefficient, log Kow - .86, its tendency to bioconcentrate in aquatic organisms should be extremely low. An experimentally determined BCF for Morpholine was <2.8.

Ecotoxicity:

An estimated BCF of 10 was calculated in fish for this compound, using a log Kow of 7.64 and regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

This product may have significant, adverse effects on aquatic plants and animals if accidentally released to an aquatic environment. The following are aquatic toxic data for some components of this product. Limited data are presented in this SDS.

Morpholine:	LC ₅₀ (bluegill) 96 Hours = 350 mg/L	LC ₅₀ (daphnia) 24h hours = 100 mg/L	EC ₅₀ (Daphnia Magna) 24 hours = 119mg/L (Immobilization)
Oleic Acid	LC ₅₀ (Pimephales promelas Fathead minnow, juvenile 4-8 wk, length 1.1-3. cm) 96 hours = 205,000 µg/L; Conditions: freshwater, static, 18-22°C, dissolved oxygen < or =4.0 mg/L		

Other adverse effects:**Environmental exposure controls:****XIII. Disposal considerations****Waste Disposal Methods:**

Components of this product are not listed as having ozone depletion potential.
Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

It is the responsibility of the generator to determine at the time of disposal whether the product meets the criteria of a hazardous waste per regulations of the area in which the waste is generated and/or disposed of. Waste disposal must be in accordance with appropriate Federal, State, and local regulations.

Contaminated packaging:**XIV. Transportation information**

Dispose of in accordance with local regulation.

U.S. Department of transportation Regulations: This product is NOT classified as a dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101

Transport Canada transportation of dangerous goods regulations: This product is NOT considered as Dangerous Goods.

International air transport association designation: This material is NOT considered as a dangerous goods, per IATA

International maritime organization (IMO): This product is not considered as dangerous goods, per rule of the IMO

Environmental hazards: This product does not meet the criteria of environmentally hazardous according to the criteria of the UN Model Regulations (as reflected in the IMDG Code, ADR, RID, and AND); components are not specifically listed in Annex III under MARPOL 73/789.

XV. Regulatory Information**Additional U.S. Regulations**

U.S. Sara reporting requirements: The components of this product are NOT subject to the reporting requirements of section 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. Sara threshold planning quantity: There are not specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb. (4540 kg) may apply, per 40 CFR 370.20

U.S. Cercla reportable quantity(RQ): Not applicable.

U.S. TSCA inventory status: The components of this product listed are listed on the TSCA inventory.

Other U.S. Federal regulations: Not applicable.

California safe drinking water and toxic enforcement act (prop 65): The Crystalline Silica (airborne particles of respirable size) component of this product is on the CA prop 65 lists. Warning! This product contains a compound known to the State of California to cause cancer.

Additional Canadian Regulations

Canadian DSL/NDSL Inventory: The components of this product listed are listed on the DSL Inventory.

Canadian WHMIS IDL disclosure status: The Amorphous Silica/Diatomaceous Earth, Crystalline Silica, Morpholine and Oleic components of this product have a disclosure level of 1%.

Other Canadian Regulations: Not applicable.

Canadian Environmental Protection Agency (CEPA) Priority substances lists: The components of this product are not on the Priority Substances Lists.

Canadian WHMIS classification and symbols: Class D2B (Materials causing other toxic effects) Irritation.

XVI. Other information

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Bridging principles were used to classify this product.

NFPA Rating Flammability 1

Health 2

Instability 0

Signal Words: Warning

Issue Date: 2015-03-18

Revision Date: 2016/07/01

To the best of our knowledge, the information contained herein is accurate. However, Delta Kite 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.



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, 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!

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 ems**

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 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: >= 0.4mm

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/cm ³	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:	> 212°F (100°C)	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	Algae	Fish	Bacteria
Maleic acid	EC50 48h 42,81 mg/l	ErC50 72h 74,35 mg/l Algae	LC50 96h 75 mg/l rainbow trout(Oncorhynchus mykiss)	EC20 3h
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 IMDG/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  Flammability
 Instability/Reactivity
 Special

HEALTH	3
FIRE	1
REACTIVITY	0
Personal Protection	

Issue Date: 2015-02-13

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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.



MATERIAL (SAFETY DATA SHEET)

PRODUCT PREMIUM BOND 3000

I. Product Identification

Product identifier: 30260, 30261, 30268, 30269, 30660, 30669, 30785, 30786
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
Isobornyl Acrylate	20-25%	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	1-6,6%	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, 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!

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 emergency**

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 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: >= 0.4mm
 Breakthrough time: > 480 min.
 Safety glasses with side protection shield
 Clothing as usual in the chemical industry.

Eye protection:

Body protection:

IX. Physical and Chemical Properties.

Form/color	Liquid/colorless	Viscosity	Dynamic	pH-value	Not Determined
Density:	1.1 g/cm ³	Melting point/freezing point	Not Determined	Boiling 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:	> 212°F (100°C)	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 17,6471 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	Algae	Fish	Bacteria
	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

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 IMDG/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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