



SAFETY DATA SHEET (SDS)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: PACT-8000 A
Other means of identification: None
Recommended use: Polyaspartic polyurea resin
Manufactured by: Xtreme Polishing Systems
2200 NW 32nd Street #700
Pompano Beach, FL 33069

E-mail Address : www.xtremepolishingsystems.com
Prepared by: The Health, Safety and Environmental Department of Xtreme Polishing Systems

Emergency Telephone Number:

24-Hour Emergency Telephone Number 800.659.5843

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification of hazardous product

Flammable liquid (Category 3)
Acute toxicity, inhalation (Category 4)
Skin irritation (Category 2)
Serious eye irritation (Category 2A)
Skin Sensitization (Category 1)
Specific target organ toxicity-single exposure (Category 3)
Respiratory sensitization (category 1)
Carcinogenicity (Category 2)
Hazardous to the aquatic environment - Chronic (Category 3)

GHS Label Elements

Hazard Pictograms/symbols



Signal Word: DANGER

Hazard and Precautionary Statements:

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.

P201 Obtain special instructions before use. **P202** Do not handle until all safety precautions have been read and understood. **P210** Keep away from heat/sparks/open flames/ hot surfaces. No smoking. **P233** Keep container tightly closed. **P240** Ground/bond container and receiving equipment. **P241** Use explosion proof electrical/ventilating/lighting equipment. **P242** Use only non-sparking tools. **P243** Take action to prevent static discharge. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P261** Avoid breathing dust/fume/gas/mist/vapors/spray. **P271** Use only outdoors or in a well-ventilated area. **P264** Wash hands thoroughly after handling. **P272** Contaminated work clothing must not be allowed out of the workplace. **P284** In case of inadequate ventilation wear respiratory protection. **P304 + P340 IF INHALED:** Remove person to fresh air and keep comfortable for breathing. **P312** Call a POISON CENTER/doctor if you feel unwell. **P308 + P313 IF** exposed or concerned: Get medical advice/attention. **P305 + P351 + P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P337 + P313** If eye irritation persists: Get medical advice/attention. **P303 + P361 + P353 IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. **P333 + P313** If skin irritation or rash occurs: Get medical advice/attention. **P301 + P310 IF SWALLOWED:** Immediately call a POISON CENTER/doctor. **P331** Do NOT induce vomiting. **P370 + P378** In case of fire: Use foam, dry chemical, water fog or carbon dioxide (CO2) to extinguish. **P362 + P364** Take of contaminated clothing and wash it before reuse. **P273** Avoid release to the environment. **P391** Collect spillage. **P403 + P235** Store in a well-ventilated place. Keep cool. **P405** Store locked up. **P501** Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards Known: None known

SAFETY DATA SHEET (SDS)

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration (%)</u>
Aspartic ester	136210-32-7	25 - 50 %
Aspartic ester	136210-30-5	25 - 50 %
4-methyl-1,3-dioxolane-2-one	108-32-7	1 - 10 %
Light aromatic solvent naphtha, petroleum	64742-95-6	1 - 10 %
1,2,4-trimethylbenzene	95-63-6	1 - 5%
Cumene	98-82-8	0 - 1%
Mixed xylenes	1330-20-7	0 - 1%
Ethyl benzene	100-41-4	< 0.1 %

* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

SECTION 4. FIRST AID MEASURES

- Ingestion** IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
- Inhalation** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
- Skin Contact** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
- Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Most important symptoms and effects (acute and delayed)

The most important known symptoms and effects are described in the labelling (section 2) and/or in section 11. Eye irritation, skin irritation, allergic symptoms. Symptoms may be delayed.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General Information

If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure the medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: In case of fire: water fog, foam, dry chemical powder, carbon dioxide (CO2)

Unsuitable extinguishing media: Do not use water jet as it might spread flame.

Specific hazards arising from the hazardous product: During fire, nitrous gases, fumes/smoke, isocyanates and vapour may be formed. Combustion products may include: acidic hydrogen chloride & hydrogen fluoride, carbon oxide, hydrocarbons, nitrogen oxides and smoke.

Special protective equipment and precautions for fire-fighting: Flammable. Evacuate area. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect personnel attempting to stop a leak. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use water spray to cool fire exposed surfaces and to protect personnel. Self-contained breathing apparatus and turn-out gear must be worn in case of fire.



SAFETY DATA SHEET (SDS)

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Isolate area. Keep unnecessary and unprotected personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental Precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from heat/sparks/open flames/ hot surfaces. – No smoking. Vapors may form explosive mixtures with the air. Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. If bulging of drum occurs, transfer to well-ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Segregate from acids and bases. Segregate from bases. Formation of CO₂ and build-up of pressure possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters (biological limit values or exposure limit values and source of those values)

Exposure limits:

CAS 136210-32-7	No exposure limits noted for the ingredient(s)		
CAS 136210-30-5	No exposure limits noted for the ingredient(s)		
CAS 108-32-7	No exposure limits noted for the ingredient(s)		
CAS 64742-95-6	ACGIH: NIOSH (petroleum distillates) TWA 350 mg/m ³ / Ceil 1800 mg/m ³ OSHA: 500 ppm (2000 mg/m ³) PEL-TWA (Petroleum distillates)		
CAS 95-63-6	ACGIH TLV	25ppm/123mg/m ³	OSHA PEL 25ppm/120mg/m ³
CAS 98-82-8	ACGIH TLV	50ppm/246mg/m ³	OSHA PEL 50ppm/245mg/m ³
CAS 1330-20-7	OSHA Z1	TWA	435 mg/m ³ 100 ppm
	ExxonMobil	RCP-TWA	434 mg/m ³ 100 ppm
	ACGIH	STEL	150 ppm
	ACGIH	TWA	100 ppm
CAS 100-41-4	OSHA Z1	TWA	435 mg/m ³ 100 ppm
	ACGIH	TWA	20 ppm

Engineering Controls

Provide good local exhaust ventilation to control vapour/mist. Eye wash facilities and emergency showers must be available when handling this product. Wash soiled clothing immediately. Contaminated equipment or clothing should be cleaned after each use or disposed of.

Personal Protective Equipment

Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Wear appropriate chemical resistant protective gloves. Wear tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists. Wear appropriate protective clothing. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eyewash fountains and safety showers are recommended in the work area.



SAFETY DATA SHEET (SDS)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State/ Appearance/ Color:	Transparent liquid, Light yellow	Vapour Pressure:	Not available
Odour:	Aromatic	Vapour Density:	Not available
Odour threshold:	Not available	Relative Density:	1.059 (g/ml)
pH:	Not available	Solubility:	Insoluble in water
Melting/freezing point:	Not available	Partition coefficient-n-octanol/water:	Not available
Initial boiling point/range:	142-182°C (300-360°F)	Auto-ignition temperature:	Not available
Flash point:	>41°C (106°F)	Decomposition temperature:	Not available
Evaporation rate:	Not available	Viscosity:	250-350 cps
Flammability (solids and gases):	Not available	VOC:	Not available
Upper and lower flammability/explosive limits	Lower 0.6% (V) Upper 7% (V)	Other:	None known

SECTION 10. STABILITY AND REACTIVITY

Reactivity: This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability: This product is stable under normal conditions.

Possibility of hazardous reactions: Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalies. Reacts with amines. Risk of exothermic reaction.

Conditions to Avoid: Keep away from heat, sparks and open flame. Avoid high temperatures. Avoid contact with incompatible materials.

Incompatible materials: Amines, alcohols, water, substances/products that react with polyureas.

Hazardous decomposition products: None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely routes of exposure (inhalation, ingestion, skin and eye contact):

Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer.

Symptoms related to the physical, chemical and toxicological characteristics:

May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash. May cause skin irritation with symptoms of reddening, itching, and swelling. May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Delayed and immediate effects (chronic effects from short-term and long-term exposure):

Skin Sensitization – Sensitization after skin contact possible; **Respiratory Sensitization** – Possible; **Germ Cell Mutagenicity** – No data available; **Carcinogenicity** – Ingredient listed by IARC, ACGIH, NTP or OSHA **Reproductive Toxicity** No data available; **Specific Target Organ Toxicity — Single Exposure** – Possible; **Specific Target Organ Toxicity - Repeated Exposure** – No data available; **Aspiration Hazard** – No data available; **Health Hazards Not Otherwise Classified** – No data available.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀):

CAS 136210-32-7	LD ₅₀ , Oral - Rat >2000 mg/kg LD ₅₀ , Dermal – Rat >2000 mg/kg LC ₅₀ , Inhalation – Rat (aerosol) >4.224 mg/L, 4hr
CAS 136210-30-5	LD ₅₀ , Oral - Rat >2000 mg/kg LD ₅₀ , Dermal – Rat >2000 mg/kg LC ₅₀ , Inhalation – Rat >4.224 mg/L, 4hr
CAS 108-32-7	LD ₅₀ , Oral - Rat >5000 mg/kg LD ₅₀ , Dermal – Rabbit >2000 mg/kg
CAS 1330-20-7	Inhalation Lethality: 4 hour(s) LC ₅₀ >20.0 mg/L (vapor) (Rat) Oral Lethality: LC ₅₀ >3523 mg/kg (Rat) Dermal Lethality: LC ₅₀ >4200 mg/kg (Rabbit)
CAS 100-41-4	Inhalation Lethality: 4 hour(s) LC ₅₀ 17.8 mg/L (vapor) (Rat) Oral Lethality: LD ₅₀ 3.5 g/kg (Rat)
CAS 64742-95-6	LD ₅₀ , Oral- Rat – 2900-3200mg/kg, 8400 mg/kg LC ₅₀ , Inhalation - Rat – 2900ppm LD ₅₀ , Dermal- Rabbit - > 3160 mg/kg



SAFETY DATA SHEET (SDS)

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial information):

Harmful to aquatic life with long lasting effects.

Product	Species	Result
CAS 136210-32-7	EC ₅₀ scenedesmus subspicatus	113 mg/l -72 h
CAS 136210-30-5	LC ₅₀ Danio rerio (zebra fish)	66 mg/l - 96 h
	IC ₅₀ scenedesmus subspicatus	113 mg/l - 72 h
	EC ₅₀ Daphnia magna (Water flea)	88.6 mg/l - 48 h
CAS 108-32-7	LC ₅₀ cyprinus carpio	> 1000 mg/l - 96 h
	EC ₅₀ Daphnia magna (Water flea)	> 1000 mg/l - 48 h
CAS 1330-20-7 / CAS 100-41-4	LC ₅₀ Oncorhynchus mykiss	2.6 mg/L - 96h
	EC ₅₀ Daphnia magna	1 mg/L - 24h
	ErC ₅₀ Pseudokirchneriella subcapitata	4.36 mg/L - 73h
	NOEC Oncorhynchus mykiss	>1.3 mg/L - 56days
	NOEC Daphnia magna	1.5 mg/L - 21days
	NOEC Pseudokirchneriella subcapitata	0.44 mg/L - 73h
CAS 64742-95-6	LC ₅₀ Oncorhynchus mykiss	9.22 mg/l - 96 h

Persistence and degradability: Not enough data available.

Bioaccumulative potential: Not enough data available.

Mobility in soil: Not enough data available.

Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Information on safe handling for disposal/methods of disposal/contaminated packaging: Dispose of contents/container into safe container in accordance with local, regional or national regulations. Do not reuse empty container without proper cleaning. Do not heat or cut container with electric or gas torch.

SECTION 14. TRANSPORT INFORMATION

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:

UN1263; PAINT RELATED MATERIAL; CLASS 3; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):

UN1263; PAINT RELATED MATERIAL; CLASS 3; PG III

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):

UN1263; PAINT RELATED MATERIAL; CLASS 3; PG III

Special Precautions (transport/conveyance): May also be shipped as a LIMITED QUANTITY in accordance with TDG.

Environmental hazards (IMDG or other): None known.

Bulk transport (usually more than 450L in capacity): Possible

SECTION 15. REGULATORY INFORMATION

Safety/health Canadian regulations specifics: Refer to section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics: Refer to section 3 for ingredient(s) of the DSL.

Safety/health/environmental outside regulations specifics:

United States OSHA information: This product is regulated according to OSHA (29 CFR).

United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3; 12; 13 & 14.

United States TCSA information: Refer to the ingredients listed in Section 3.



PRODUCT IDENTIFIER – PACT-8000 A
DATE & VERSION – March 13, 2020 Version 03

SAFETY DATA SHEET (SDS)

SECTION 16. OTHER INFORMATION

Date of latest revision of the safety data sheet: **March 13, 2020 Version 3 (Corrections Section 2; 3; 4; 9; 11; 14; 15)**

Disclaimer:

NOTICE TO READER:

CTM Adhesives Inc. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, CTM Adhesives makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTM Adhesives' control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

END OF S.D.S.