

# PRODUCTS TECHNIQUES, INC.

## Safety Data Sheet

### SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: POLYURETHANE CATALYST FOR PT-799 SERIES Product Code: PT-799-CATALYST

Trade Name: THIS SDS FOR ALL LUSTERLESS, SEMI-GLOSS, HIGH-GLOSS, AND ALL COLORS.

Products/Techniques, Inc.  
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OPERATING HOURS: 8:00 am - 4:30 pm PDT

### SECTION 2 - HAZARDS IDENTIFICATION

HMIS:230X

#### GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Oral Toxicity	4	Oral>300+<=2000mg/kg
Dermal Toxicity	4	Dermal>1000+<=2000mg/kg
Inhalation Toxicity	4	Gases>2500+<=20000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin corrosive	3	Reversible adverse effects in dermal tissue, Draize score: >= 1.5 < 2.3
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Respiratory sensitizer	1	Respiratory sensitizer

#### GHS Hazards

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H316	Causes mild skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
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

P285 In case of inadequate ventilation wear respiratory protection  
P363 Wash contaminated clothing before reuse  
P302+P352 IF ON SKIN: Wash with soap and water  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
P370+P380+P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion  
P402+P404 Store in a dry place. Store in a closed container  
P403+P235 Store in a well ventilated place. Keep cool

Signal Word: Danger



### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
PARACHLOROBENZOTRIFLOURIDE	98-56-6	60.88%
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER	28182-81-2	26.99%
1-METHOXY-2-PROPANOL ACETATE	108-65-6	7.65%
HEPTAN-2-ONE	110-43-0	2.66%
2-(2-BUTOXYETHOXY) ETHANOL	112-34-5	0.97%
BENZENESULFONYLISOCYANTE, 4-METHYL-	4083-64-1	0.84%

### SECTION 4 - FIRST AID MEASURES

INHALATION: If breathing problems occur during use, **LEAVE AREA IMMEDIATELY** and get fresh air. If breathing problems remain, **SEEK IMMEDIATE MEDICAL ATTENTION**.

EYE CONTACT: Flush eyes with large amounts of clean water for at least 20 minutes. Seek immediate medical attention.

SKIN CONTACT: Wash affected area thoroughly with soap and water. Get medical attention if irritation develops or persists. Remove contaminated clothing and launder before re-use.

INGESTION: Do not induce vomiting. Get immediate medical attention.

### SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 0 C (32 F)

LEL: 1.0%

UEL: 11.0%

All flashpoints: TCC LEL AND UEL expressed as percent (%)

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water spray/water fog extinguishing systems

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors can travel to a source of ignition and flash back.

Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY**

EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed of.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

## SECTION 7 - HANDLING & STORAGE

HANDLING: Wear all appropriate Personal Protective Equipment (PPE). Wear appropriate respiratory protection and ensure adequate ventilation at all times as vapors can accumulate over time in enclosed spaces and poorly ventilated areas. Use product in a way that minimizes splashes and/or creation of dust. Wash with soap and water thoroughly after each use.

STORAGE: Keep away from heat, sparks and flame. Keep container closed when not in use. Store in a cool dry area at a temperature between 50 and 95 degrees F. Do not store outside in direct sunlight.

## SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
PARACHLOROBENZOTRIF LOURIDE 98-56-6	Not Established	Not Established	Not Established
HEXANE, 1,6- DIISOCYANATO-, HOMOPOLYMER 28182-81-2	Not Established	Not Established	Bayer: 0.5 mg/m <sup>3</sup> TWA STEL 1.0 mg/m <sup>3</sup> (15 min)
1-METHOXY-2- PROPANOL ACETATE 108-65-6	TWA 50 PPM	Not Established	Not Established
HEPTAN-2-ONE 110-43-0	100 ppm TWA; 465 mg/m <sup>3</sup> TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m <sup>3</sup> TWA
2-(2-BUTOXYETHOXY) ETHANOL 112-34-5	TWA 20ppm TWA 50ppm 240mg/m <sup>3</sup>	Not Established	Not Established
BENZENESULFONYLISOC YANTE, 4-METHYL- 4083-64-1	Not Established	Not Established	Not Established

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this

product. Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**VENTILATION & RESPIRATORY PROTECTION:** Always follow all local, state, and federal laws and regulations regarding the use of respirators. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

**ADMINISTRATIVE CONTROLS:** All individual company safety policies should be reviewed to determine compliance with applicable Federal, State and local safety regulations. If a company determines that threshold limit values and air quality contaminant level have not been exceeded, then that company should set it's own policies regarding the use of respirators and other Personal Protective Equipment.

**SKIN PROTECTION:** Where contact is likely, wear chemical resistant gloves, such as neoprene or solvent resistant nitrile. To prevent repeated or prolonged skin contact, wear impervious clothing such as a chemical suit, rubber boots, and/or chemical safety goggles plus a face shield if such should be necessary. If the equipment to be worn is not available or the type of equipment for a specific job is not known, consult a reputable safety equipment supply company. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

**EYE PROTECTION:** Wear safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE EQUIPMENT:** Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.

**HYGIENIC PRACTICES:** Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid prolonged or repeated contact with skin. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

This product exhibits the following properties under normal conditions:

<b>Appearance</b> Clear liquid	<b>Odor</b> Solvent like
<b>Vapor Pressure:</b> 6.8 X 10 <sup>-6</sup> @ 68F	<b>Odor threshold:</b> N/A
<b>Vapor Density:</b> 4.5	<b>pH:</b> N/A
<b>Density:</b> 1.21	<b>Melting point:</b> N/A
<b>Freezing point:</b> N/A	<b>Solubility:</b> N/A
<b>Boiling Range:</b> 125 - 152°C	<b>Flash point:</b> 32 F
<b>Evaporation rate:</b> N/A	<b>Physical State</b> Liquid
<b>Explosive Limits:</b> 1% - 11%	<b>Partition coefficient (n-octanol/water):</b> N/A
<b>Autoignition temperature:</b> 200°C	<b>Decomposition temperature:</b> N/A
<b>VOC(g/l) Less H<sub>2</sub>O and Exempt Compounds</b> 303.97	<b>VOC(lbs/gal) Less H<sub>2</sub>O and Exempt Compounds</b> 2.53
<b>Specific Gravity</b> 1.21	<b>% VOC (C.A.R.B)</b> 11.28

Weight/Gallon 10.12

% Weight VOC in Can 43%

## SECTION 10 - REACTIVITY & STABILITY

### STABILITY:

STABLE

INCOMPATIBILITY (Materials to avoid): strong acids and bases, oxidizers, and selected amines.

CONDITIONS TO AVOID: Avoid all possible sources of ignition.

No Data

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>). Other unknown hazardous products are possible.

No Data

Hazardous polymerization will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Mixture Toxicity

Dermal Toxicity LD50: 3mg/kg

Inhalation Toxicity LC50: 21mg/L

### Component Toxicity

98-56-6

PARACHLOROBENZOTRIFLOURIDE

Oral LD50: 13 g/kg (Rat) Dermal LD50: 2 mg/kg (Rabbit:) Inhalation LC50: 33 mg/L (Rat)

28182-81-2

HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER

Oral LD50: 5,000 mg/kg (Rat)

108-65-6

1-METHOXY-2-PROPANOL ACETATE

Dermal LD50: 5,000 mg/kg (Rabbit:) Inhalation LC50: 100 ppm (Rat)

110-43-0

HEPTAN-2-ONE

Oral LD50: 1,670 mg/kg (Rat)

112-34-5

2-(2-BUTOXYETHOXY) ETHANOL

Oral LD50: 3,384 mg/kg (Rat) Dermal LD50: 2,700 mg/kg (Rabbit)

INHALATION: Headaches, dizziness, nausea, decreased blood pressure, change in heart rate, and cyanosis may result from overexposure to vapor. **Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.**

INGESTION: This material may be harmful or fatal if swallowed.

SKIN CONTACT: May cause sensitization or allergic reaction.

EYE CONTACT: Direct contact with liquid, exposure to vapors or mist may cause stinging, tearing, redness, swelling and eye damage.

Routes of Entry:

Inhalation

Skin Contact

Eye Contact

Ingestion

Exposure to this material may affect the following organs:

### Effects of Overexposure

### CARCINOGENICITY:

CAS Number

Description

% Weight

Carcinogen Rating

None

No Data

### ACUTE TOXICITY:

INHALATION: **Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.**

CONDITIONS AGGRAVATED: Unknown.

CHRONIC EFFECTS: **Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage.**

## SECTION 12 - ECOLOGICAL INFORMATION

No information available.

### Component Ecotoxicity

PARACHLOROBENZOTRIFLOU RIDE	48 Hr LC50 Lepomis macrochirus: 11.5-15.8 mg/L [static] 48 Hr EC50 Daphnia magna: 3.68 mg/L
HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER	ACUTE AND PROLONGED TOXICITY TO FISH: Zebra fish/LC50 (96 h): > 100 MG/L  ACUTE TOXICITY TO AQUATIC INVERTERBRATES: Daphnia magna/EC50: > 100 mg/l  TOXICITY TO MICROORGANISMS: Bacteria/EC50 (3 h): > 1,000 mg/l
1-METHOXY-2-PROPANOL ACETATE	96 Hr LC50 Pimephales promelas: 161 mg/L [static] 48 Hr EC50 Daphnia magna: >500 mg/L
HEPTAN-2-ONE	96 Hr LC50 Pimephales promelas: 131.0 mg/L [flow-through]
2-(2-BUTOXYETHOXY) ETHANOL	96 Hr LC50 Lepomis macrochirus: 1300 mg/L [static] 24 Hr EC50 water flea: 2850 mg/L; 48 Hr EC50 Daphnia magna: >100 mg/L 96 Hr EC50 Scenedesmus subspicatus: >100 mg/L
BENZENESULFONYLISOCYANT E, 4-METHYL-	TOXICITY TO ALGAE EC50: 23 mg/L Selenastrum capricornutum 72 h (p-Toluene sulfonamide 70-55-3)  TOXICITY TO FISH LC50: 435 mg/L Oryzias latipes 96 h (p-Toluene sulfonamide 70-55-3)  DAPHNIA MAGNA (WATER FLEA) EC50: 150 mg/L Daphnia magna 72 h (p-Toluene sulfonamide 70-55-3)

## SECTION 13 - DISPOSAL CONSIDERATIONS

It is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition. Maximize material recovery for reuse or recycling.

It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues.

Non-usable product is regulated by US EPA as hazardous material under the following codes:

## SECTION 14 - TRANSPORTATION / SHIPPING INFORMATION

Hazardous Material! Ship according to all applicable local, state, and federal regulations regarding labeling and packaging requirements.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
D.O.T.	PAINT	UN 1263	II	3
IATA	PAINT	UN 1263	II	3
IMO	PAINT	UN 1263	II	3

**SECTION 15 - REGULATORY INFORMATION**

Additional regulatory listings, where applicable.

Country                                      Regulation                                      All Components Listed

**EU Risk Phrases**

**Safety Phrase**

All ingredients are TSCA 2018 Reset Compliant. The chemical substances listed below are not on the TSCA Section 8 Inventory:

No Data

SARA Section 313: The product contains the following substances subject to the reporting requirements of section 313 and Title II of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

**SECTION 16 - OTHER INFORMATION**

The information in this document is believed to be correct as of the date printed.

NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT OF THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

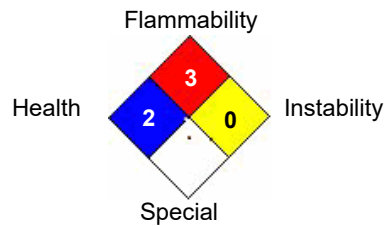
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**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	<input type="text" value="2"/>
<b>FLAMMABILITY</b>	<input type="text" value="3"/>
<b>PHYSICAL HAZARD</b>	<input type="text" value="0"/>
<b>PERSONAL PROTECTION</b>	<input checked="" type="checkbox"/>

**HMIS & NFPA Hazard Rating Legend**  
 \* = Chronic Health Hazard  
 0 = INSIGNIFICANT  
 1 = SLIGHT  
 2 = MODERATE  
 3 = HIGH

**National Fire Protection Association (NFPA)**



Reviewer Revision

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