

PRODUCTS TECHNIQUES, INC.

Safety Data Sheet

SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: MIL-PRF-85285E TY.I/II/IV CL. H GLOSS CLEAR Product Code: PT-799CLEAR

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 %
POLYESTER POLYOL RESIN	TRADE SECRET OF MFG.	57.63%
HEPTAN-2-ONE	110-43-0	14.11%
N-BUTYL ACETATE NORMAL	123-86-4	11.12%
1-METHOXY-2-PROPANOL ACETATE	108-65-6	8.81%
METHYL ETHYL KETONE	78-93-3	4.10%
DIISOBUTYL KETONE	108-83-8	2.05%
PENTANEDIONE ADDITIVE	123-54-6	0.74%
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]~-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	104810-47-1	0.33%
CELLULOSE ACETATE BUTYRATE	9004-36-8	0.33%
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	41556-26-7	0.32%
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]~-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	104810-48-2	0.25%
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	82919-37-7	0.14%
TRADE SECRET NON HAZARDOUS	PROPRIETARY SURFACTANT	0.08%
CATALYST ADDITIVE	77-58-7	0.00%

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: -6 C (21 F)

LEL: 1.0%

UEL: 11.0%

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

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide (CO₂), 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
POLYESTER POLYOL RESIN TRADE SECRET OF MFG.	Not Established	Not Established	Not Established
HEPTAN-2-ONE 110-43-0	100 ppm TWA; 465 mg/m ³ TWA	50 ppm TWA	NIOSH: 100 ppm TWA; 465 mg/m ³ TWA
N-BUTYL ACETATE NORMAL 123-86-4	150 ppm TWA; 710 mg/m ³ TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m ³ TWA 200 ppm STEL; 950 mg/m ³ STEL

1-METHOXY-2-PROPANOL ACETATE 108-65-6	TWA 50 PPM	Not Established	Not Established
METHYL ETHYL KETONE 78-93-3	200 ppm TWA; 590 mg/m3 TWA	300 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 590 mg/m3 TWA 300 ppm STEL; 885 mg/m3 STEL
DIISOBUTYL KETONE 108-83-8	50 ppm TWA; 290 mg/m3 TWA	25 ppm TWA	NIOSH: 25 ppm TWA; 150 mg/m3 TWA
PENTANEDIONE ADDITIVE 123-54-6	Not Established	Not Established	Not Established
Poly(oxy-1,2-ethanediyl), a- [3-[3-(2H-benzotriazol-2-yl)- 5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropyl]- ~-[3-[3-(2H-benzotriazol-2- yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1- oxopropoxy]- 104810-47-1	Not Established	Not Established	Not Established
CELLULOSE ACETATE BUTYRATE 9004-36-8	Not Established	Not Established	Not Established
bis(1,2,2,6,6-pentamethyl-4- piperidyl)sebacate 41556-26-7	Not Established	Not Established	Not Established
Poly(oxy-1,2-ethanediyl), a- [3-[3-(2H-benzotriazol-2-yl)- 5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropyl]- ~-[3-[3-(2H-benzotriazol-2- yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1- oxopropoxy]- 104810-48-2	Not Established	Not Established	Not Established
Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate 82919-37-7	Not Established	Not Established	Not Established
TRADE SECRET NON HAZARDOUS PROPRIETARY SURFACTANT	Not Established	Not Established	Not Established
CATALYST ADDITIVE 77-58-7	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 its 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:

<p style="text-align: center;">Appearance Clear liquid</p> <p>Vapor Pressure: 12.0 mmHg</p> <p>Vapor Density: 3.9</p> <p>Density: 1.02</p> <p>Freezing point: N/A</p> <p>Boiling Range: 80 - 163°C</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: 1% - 11%</p> <p>Autoignition temperature: 315°C</p> <p>VOC(g/l) Less H2O and Exempt Compounds 408.27</p> <p>Specific Gravity 1.02</p> <p>Weight/Gallon 8.52</p>	<p style="text-align: center;">Odor Solvent like</p> <p>Odor threshold: N/A</p> <p>pH: N/A</p> <p>Melting point: N/A</p> <p>Solubility: N/A</p> <p>Flash point: 21F</p> <p>Physical State Liquid</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Decomposition temperature: N/A</p> <p>VOC(lbs/gal) Less H2O and Exempt Compounds 3.40</p> <p>% VOC (C.A.R.B) 39.99</p> <p>% Weight VOC in Can 43%</p>
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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 (CO₂). Other unknown hazardous products are possible.

No Data

Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 407mg/L

Component Toxicity

110-43-0	HEPTAN-2-ONE Oral LD50: 1,670 mg/kg (Rat)
123-86-4	N-BUTYL ACETATE NORMAL Inhalation LC50: 390 ppm (Rat)
108-65-6	1-METHOXY-2-PROPANOL ACETATE Dermal LD50: 5,000 mg/kg (Rabbit:) Inhalation LC50: 100 ppm (Rat)
78-93-3	METHYL ETHYL KETONE Oral LD50: 2,737 mg/kg (Rat) Inhalation LC50: 32 g/m ³ (Mouse)
108-83-8	DIISOBUTYL KETONE Dermal LD50: 16 g/kg (Rabbit) Inhalation LC50: 2,300 ppm (Rat:)
123-54-6	PENTANEDIONE ADDITIVE Oral LD50: 55 mg/kg (Rat) Dermal LD50: 810 µL/kg (Rabbit) Inhalation LC50: 1,224 ppm (Rat)
9004-36-8	CELLULOSE ACETATE BUTYRATE Oral LD50: 3,200 mg/kg (Rat) Dermal LD50: 1,000 mg/kg (Guinea Pig)
77-58-7	CATALYST ADDITIVE Oral LD50: 175 mg/kg (Rat)

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:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
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

HEPTAN-2-ONE	96 Hr LC50 Pimephales promelas: 131.0 mg/L [flow-through]
N-BUTYL ACETATE NORMAL	96 Hr LC50 Leuciscus idus: 62 mg/L [static] 48 Hr EC50 water flea: 44 mg/L 96 Hr EC50 Scenedesmus subspicatus: 320 mg/L; 72 Hr EC50 Scenedesmus subspicatus: 674.7 mg/L
1-METHOXY-2-PROPANOL ACETATE	96 Hr LC50 Pimephales promelas: 161 mg/L [static] 48 Hr EC50 Daphnia magna: >500 mg/L
METHYL ETHYL KETONE	96 Hr LC50 Pimephales promelas: 3220 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 1690 mg/L 48 Hr EC50 water flea: 520 mg/L; 48 Hr EC50 Daphnia magna: 5091 mg/L
DIISOBUTYL KETONE	96 Hr LC50 Oncorhynchus mykiss: 140 mg/L [semi-static] 96 Hr EC50 Selenastrum capricornutum: 100 mg/L
PENTANEDIONE ADDITIVE	96 Hr LC50 Pimephales promelas: 104 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 29 mg/L 48 Hr EC50 Daphnia magna: 34.4 mg/L
CATALYST ADDITIVE	48 Hr LC50 Oryzias latipes: 2 mg/L

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.

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Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

HMIS & NFPA Hazard Rating

Legend

* = Chronic Health Hazard

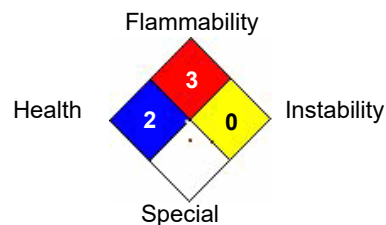
0 = INSIGNIFICANT

1 = SLIGHT

2 = MODERATE

3 = HIGH

National Fire Protection Association (NFPA)



Reviewer Revision

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