PTI

PRODUCTS TECHNIQUES, INC.
Safety Data Sheet

SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: TT-P-1757A/B TY.I/II CL. C & AMS 3110H/J/K YELLOW Product Code: PT-522YELLOW

Trade Name: MIL-P-8585 CANCELLED AND SUPERCEEDED BY TT-P-1757

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

In an emergency, call
CHEMTREC: 1.800.424.9300

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
Carcinogen	1A	Known Human Carcinogen Based on human evidence

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

Trade secrets, proprietary, non-hazardous, and unlisted ingredients are not hazardous to humans, the environment, and are not regulated materials.

Chemical Name	CAS number	Weight Concentration %
POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE	11103-86-9	30.44%
ALKYD RESIN - NOT HAZARDOUS	LYD RESIN-CAS: PROPRIETA	18.67%
ACETONE	67-64-1	17.42%
MINERAL SPIRITS	8052-41-3	6.44%
XYLENE	1330-20-7	5.71%
BARIUM SULFATE	7727-43-7	4.55%
N-BUTYL ACETATE NORMAL	123-86-4	4.54%
TRADE SECRET RESIN	CAS: TRADE SECRET	3.86%
METHYL ETHYL KETONE	78-93-3	3.62%
SYNTHETIC AMORPHOUS SILICA	112926-00-8	2.18%
TRADE SECRET NON HAZARDOUS	PROPRIETARY SURFACTANT	0.88%
ETHYLBENZENE	100-41-4	0.43%
SILANE	1760-24-3	0.42%
1-METHOXY-2-PROPANOL ACETATE	108-65-6	0.18%
ADDITIVE	96-29-7	0.16%
(P TERT)BUTYLPHENOL	98-54-4	0.16%
ZIRCONIUM ADDITIVE	22464-99-9	0.13%
COBALT ADDITIVE	61789-51-3	0.09%
FORMALDEHYDE	50-00-0	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: -20°C (-4°F)
LEL: 1.0% UEL: 13.0%
All flashpoints: TCC LEL AND UEL expressed as percent (%)
EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide (CO_2), 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
POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE 11103-86-9	5 ug/m3 8 hr TWA 1 mg/10m3 CEIL 0.1 mg/m3 CEIL (as CrO3)	0.01 mg/m3 TWA (as Cr, listed under Zinc chromates)	NIOSH: 0.001 mg/m3 10 hr TWA (as CR)
ALKYD RESIN - NOT HAZARDOUS ALKYD RESIN-CAS: PROPRIETARY	Not Established	Not Established	Not Established
ACETONE 67-64-1	1000 ppm TWA; 2400 mg/m3 TWA	750 ppm STEL 500 ppm TWA	NIOSH: 250 ppm TWA; 590 mg/m3 TWA
MINERAL SPIRITS 8052-41-3	500 ppm TWA; 2900 mg/m3 TWA	100 ppm TWA	NIOSH: 350 mg/m3 TWA 1800 mg/m3 Ceiling (15 min)
XYLENE 1330-20-7	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	Not Established
BARIUM SULFATE 7727-43-7	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA	NIOSH: 10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
N-BUTYL ACETATE NORMAL 123-86-4	150 ppm TWA; 710 mg/m3 TWA	200 ppm STEL 150 ppm TWA	NIOSH: 150 ppm TWA; 710 mg/m3 TWA 200 ppm STEL; 950 mg/m3 STEL
TRADE SECRET RESIN CAS: TRADE SECRET	Not Established	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
SYNTHETIC AMORPHOUS SILICA 112926-00-8	Not Established	Not Established	Not Established
TRADE SECRET NON HAZARDOUS PROPRIETARY SURFACTANT	Not Established	Not Established	Not Established
ETHYLBENZENE 100-41-4	100 ppm TWA; 435 mg/m3 TWA	125 ppm STEL 100 ppm TWA	NIOSH: 100 ppm TWA 435 mg/m3 TWA 125 ppm STEL, 545 mg/m3 STEL
SILANE 1760-24-3	Not Established	Not Established	Not Established
1-METHOXY-2-PROPANOL ACETATE 108-65-6	TWA 50 PPM	Not Established	Not Established
ADDITIVE 96-29-7	Not Established	Not Established	Not Established
(P TERT)BUTYLPHENOL 98-54-4	Not Established	Not Established	Not Established
ZIRCONIUM ADDITIVE 22464-99-9	Not Established	Not Established	Not Established

COBALT ADDITIVE 61789-51-3	Not Established	Not Established	Not Established
FORMALDEHYDE 50-00-0	0.75 ppm TWA	0.3 ppm Ceiling	NIOSH: 0.016 ppm TWA 0.1 ppm Ceiling (15 min)

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:

Appearance Pigmented liquid	**Odor** Solvent like
Vapor Pressure: 89.1 mmHg	**Odor threshold:** N/A
Vapor Density: 3.0	**pH:** N/A
Density: 1.25	**Melting point:** N/A
Freezing point: N/A	**Solubility:** N/A

Boiling Range: 56 - 148°C	**Flash point:** -4F
Evaporation rate: N/A	**Physical State** Liquid
Explosive Limits: 1% - 13%	**Partition coefficient (n-octanol/water):** N/A
Autoignition temperature: 226°C	**Decomposition temperature:** N/A
VOC(g/l) Less H2O and Exempt Compounds 367.60	**VOC(lbs/gal) Less H2O and Exempt Compounds** 3.06
Specific Gravity 1.25	**% VOC (C.A.R.B)** 21.38
Weight/Gallon 10.40	

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_2). Other unknown hazardous products are possible.

No Data

Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 793mg/L

Component Toxicity

78-93-3	METHYL ETHYL KETONE Oral LD50: 2,737 mg/kg (Rat) Inhalation LC50: 32 g/m3 (Mouse)
100-41-4	ETHYLBENZENE Oral LD50: 3,500 mg/kg (Rat) Inhalation LC50: 17 mg/L (Rat)
108-65-6	1-METHOXY-2-PROPANOL ACETATE Dermal LD50: 5,000 mg/kg (Rabbit) Inhalation LC50: 100 ppm (Rat)
96-29-7	ADDITIVE Oral LD50: 930 mg/kg (Rat) Inhalation LC50: 20 mg/L (Rat)
98-54-4	(P TERT)BUTYLPHENOL Oral LD50: 2,990 mg/kg (Rat) Dermal LD50: 2,318 mg/kg (Rabbit)
50-00-0	FORMALDEHYDE Oral LD50: 500 mg/kg (Rat) Inhalation LC50: 1 mg/L (Rat)

INHALATION: Headaches, dizziness, nauseau, 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:

Blood Eyes Kidneys Liver Lungs Central Nervous System Reproductive System Skin Heart Respiratory System

Effects of Overexposure

CARCINOGENICITY:

CAS Number	Description	% Weight	Carcinogen Rating
11103-86-9	POTASSIUM HYDROXYOCTAOXODIZINCATED ICHROMATE	30.44%	POTASSIUM HYDROXYOCTAOXODIZINCATEDI CHROMATE: IARC: Human carcinogen IARC: Human carcinogen OSHA: listed ECHA CANDIDATE LIST: Human carcinogen
50-00-0	FORMALDEHYDE	0.000%	FORMALDEHYDE: NIOSH: potential occupational carcinogen IARC: Human carcinogen OSHA: listed
61789-51-3	COBALT ADDITIVE	0.089%	COBALT ADDITIVE: IARC: Possible human carcinogen OSHA: listed

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

ACETONE	96 Hr LC50 Pimephales promelas: 6210-8120 mg/L [static] 48 Hr EC50 water flea: 0.0039 mg/L; 48 Hr EC50 water flea: 12700 mg/L [Static] 48 Hr EC50 Daphnia magna: 12600 mg/L
XYLENE	96 Hr LC50 Pimephales promelas: 13.4 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 8.05 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.1 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 26.7 mg/L [static 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 Gammarus lacustris: 0.6 mg/L
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
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

ETHYLBENZENE	96 Hr LC50 Oncorhynchus mykiss: 14.0 mg/L [static]; 96 Hr LC50 Pimephales promelas: 9.09 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 150.0 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]; 96 Hr LC50 Pimephales promelas: 48.5 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 9.6 mg/L [static] 48 Hr EC50 Daphnia magna: 1.8-2.4 mg/L 72 Hr EC50 Selenastrum capricornutum: 4.6 mg/L; 96 Hr EC50 Selenastrum capricornutum: >438 mg/L
1-METHOXY-2-PROPANOL ACETATE	96 Hr LC50 Pimephales promelas: 161 mg/L [static] 48 Hr EC50 Daphnia magna: >500 mg/L
ADDITIVE	96 Hr LC50 Leuciscus idus: 320-1000 mg/L [static]; 96 Hr LC50 Poecilia reticulata:760 mg/L[static] 48 Hr EC50 Daphnia magna: 750 mg/L 72 Hr EC50 Scenedesmus subspicatus: 83 mg/L
(P TERT)BUTYLPHENOL	96 Hr LC50 Pimephales promelas: 5.1 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 3.9 mg/L 72 Hr EC50 Scenedesmus subspicatus: 11.2 mg/L
FORMALDEHYDE	96 Hr LC50 Brachydanio rerio: 41 mg/L [static] 96 Hr EC50 water flea: 20 mg/L; 48 Hr EC50 Daphnia magna: 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.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
D.O.T.	PAINT	UN 1263	II	3
IATA	PAINT	UN 1263	II	3
IMDG	PAINT	UN 1263	II	3

SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable.

Restrictions on Use (United States): This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or
processed (as defined in TSCA section 3(13)) for
consumer paint or coating removal

Country	Regulation	All Components Listed

EU Risk Phrases

R10: Flammable
R60: May impair fertility
R61: May cause harm to the unborn child
R20/22: Harmful by inhalation and if swallowed
R36/37/38: Irritating to eyes, respiratory system and skin
R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

Safety Phrase

S15: Keep away from heat
S16: Keep away from sources of ignition - No smoking
S22: Do not breathe dust
S23: Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
S3/9/49: Keep only in the original container in a cool, well-ventilated place
S20/21: When using do not eat, drink or smoke
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

All ingredients are TSCA 2016 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:

61789-51-3 COBALT ADDITIVE 0.09%

SECTION 16 - OTHER INFORMATION

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

NO WARRANTY OF MERCHANTIBILITY, 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.

Hazardous Material Information System (HMIS) **National Fire Protection Association (NFPA)**

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

Reviewer Revision

Date Prepared: 1/8/2020