PRODUCTS TECHNIQUES, INC. Safety Data Sheet

SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: MIL-PRF-23377K TYPE 2, CLASS 2, CHROMATED EPOXY POLYAMIDE PRIMER GREEN - TWO COMPONENT TOUCH-UP PEN Product Code: M23377-2-C2-10CC-GREEN (PART B)

Products/Techniques, Inc. 3271 S. Riverside Ave. Bloomington, CA 92316 PH: 909.877.3951 FX: 909.877.6078 E-mail: pti@ptipaint.com Web: www.ptipaint.com

CHEMTREC: 1.800.424.9300

Product Filled By: Delaware Paint Company 8455 Rausch Drive Plain City, Ohio 43064 740-368-9981

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	Acute Tox. 4	Oral>300+<=2000mg/kg
Dermal Toxicity	Acute Tox. 4	Dermal>1000+<=2000mg/kg
Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, 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
Skin sensitizer	1	Skin sensitizer

GHS Hazards

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H305	May be harmful if swallowed and enters airways
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
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
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light//equipment
P242	Use only non-sparking tools

P264Wash thoroughly after handlingP270Do not eat, drink or smoke when using this productP272Contaminated work clothing should not be allowed out of the workplaceP280Wear protective gloves/protective clothing/eye protection/face protectionP285In case of inadequate ventilation wear respiratory protectionP321Specific treatment (see on this label)P330Rinse mouthP363Wash contaminated clothing before reuseP301+P312IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwellP302+P352IF ON SKIN: Wash with soap and waterP303+P361+P353IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/showerP304+P341IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathingP332+P313If skin irritation occurs: Get medical advice/attentionP332+P313If skin irritation or a rash occurs: Get medical advice/attentionP342+P311Call a POISON CENTER or doctor/physicianP370+P378In case of fire: Use for extinction	P243	Take precautionary measures against static discharge
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P403+P235 Store in a well ventilated place. Keep cool	P403+P235	Store in a well ventilated place. Keep cool
DE01 Dianono of contanto/containor to	P501	Dispose of contents/container to

Signal Word: Danger



SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
NON-HAZARDOUS INGREDIENTS	NHI	25.26%
ALCOHOL	100-51-6	25.26%
BUTANOL	71-36-3	17.55%
IPD	2855-13-2	12.63%
METHYL ETHYL KETONE	78-93-3	10.80%
SYNTHETIC AMORPHOUS SILICA	112926-00-8	5.60%
SILANE	1760-24-3	1.30%
DETA	111-40-0	0.32%
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN COPOLYMER	25068-38-6	0.32%
WATER	7732-18-5	0.30%

(1) NON-HAZARDOUS MATERIAL

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: 1.00 UEL: 12.00 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
NON-HAZARDOUS INGREDIENTS NHI	Not Established	Not Established	Not Established
ALCOHOL 100-51-6	Not Established	Not Established	WEEL: 10 ppm 8 hr TWA

BUTANOL 71-36-3	100 ppm TWA; 300 mg/m3 TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m3 Ceiling
IPD 2855-13-2	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
SILANE 1760-24-3	Not Established	Not Established	Not Established
DETA 111-40-0	Not Established	1 ppm TWA	NIOSH: 1 ppm TWA; 4 mg/m3 TWA
4,4'- ISOPROPYLIDENEDIPHEN OL-EPICHLOROHYDRIN COPOLYMER 25068-38-6	Not Established	Not Established	Not Established
WATER 7732-18-5	No TLV established	No PEL 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:

Appearance Clear liquid Physical State Liquid Vapor Pressure 15.8 mmHg

Wt% Solids 71.65 VOC(g/l) Less H2O and 279.40 **Exempt Compounds** VOC (g/L) Material 279.40

% VOC (C.A.R.B) 28.35

Vapor Density 13.25 Boiling Range 80 to 259 °C, 175 to 498 °F Weight/Gallon 8.22 VOC(lbs/gal) Less H2O and 2.33 **Exempt Compounds**

Odor Solvent like

Specific Gravity 0.99

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

Oral Toxicity LD50: 438mg/kg Dermal Toxicity LD50: 3,879mg/kg Inhalation Toxicity LC50: 24mg/L

component Toxicity	
100-51-6	ALCOHOL
	Oral LD50: 1,230 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit) Inhalation LC50: 9 mg/L (Rat)
71-36-3	BUTANOL
	Oral LD50: 790 mg/kg (Rat) Dermal LD50: 3,400 mg/kg (Rabbit)
2855-13-2	IPD
	Oral LD50: 2,369 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rat)
78-93-3	METHYL ETHYL KETONE
	Oral LD50: 2,737 mg/kg (Rat) Inhalation LC50: 32 g/m3 (Mouse)

111-40-0	DETA
	Oral LD50: 819 mg/kg (Rat) Dermal LD50: 672 mg/kg (Rabbit)
25068-38-6	4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN COPOLYMER Dermal LD50: 1,200 mg/kg (Rat)
7732-18-5	WATER Oral LD50: 90 mL/kg (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:

Effects of Overexposure

CARCINOGENICITY:

CAS Number	Description	<u>% Weight</u>	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		
ALCOHOL	96 Hr LC50 Pimephales promelas: 460 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 10 mg/L [static] 48 Hr EC50 water flea: 23 mg/L 3 Hr EC50 Anabaena variabilis: 35 mg/L	
BUTANOL	96 Hr LC50 Pimephales promelas: 1730-1910 mg/L [static]; 96 Hr LC50 Pimephales promelas:1740 mg/L[flow-through] 48 Hr EC50 Daphnia magna: 1983 mg/L 96 Hr EC50 Scenedesmus subspicatus: >500 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >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	
DETA	96 Hr LC50 Leuciscus idus: 430 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata:248 mg/L[static] 24 Hr EC50 water flea: 330 mg/L; 48 Hr EC50 Daphnia magna: 16 mg/L 72 Hr EC50 Selenastrum capricornutum: 1164 mg/L; 96 Hr EC50 Selenastrum capricornutum: 345.6 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 592 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. IATA	PAINT PAINT	UN 1263 UN 1263	II	3
IMO	PAINT	UN 1263	П	3

SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable.

The following chemicals are listed under California Proposition 65:

- None

The following chemicals appear on the New Jersey Right-To-Know Chemicals list: 78-93-3 METHYL ETHYL KETONE

The following chemicals appear on the Pennsylvania Right-To-Know list: 78-93-3 METHYL ETHYL KETONE 10.80 %

SARA HAZARD CATEGORY: The product has been reviewed according to the EPA 'Hazard Categories' promulgated under sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meed the following categories:

100-51-6 ALCOHOL Fire Hazard, Acute Health Hazard, Chronic Health Hazard
71-36-3 BUTANOL Fire Hazard, Acute Health Hazard
2855-13-2 IPD Acute Health Hazard
78-93-3 METHYL ETHYL KETONE Fire Hazard, Acute Health Hazard, Chronic Health Hazard
1760-24-3 SILANE Acute Health Hazard, Chronic Health Hazard

TOXIC SUBSTANCES CONTROL ACT: TSCA 2018 RESET COMPLIANT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

- None

Country

Regulation

All Components Listed



Safety Phrase

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

- None

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 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.

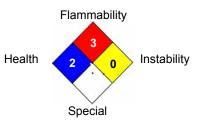
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Hazardous Material Information System (HMIS)



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

National Fire Protection Association (NFPA)



Reviewer Revision

Date Prepared: 4/28/2019