

# PRODUCTS TECHNIQUES, INC.

## Safety Data Sheet

### SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: DOD-P-15328D GREEN Product Code: PT-402GREEN

Trade Name: CAGE CODE:06341

MANUFACTURER:  
Products/Techniques, Inc.  
3271 S. Riverside Ave.  
Bloomington, CA 92316

PH: 909.877.3951  
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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	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Oral Toxicity	Acute Tox. 4	Oral $>300$ and $\leq 2000$ mg/kg
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence

#### GHS Hazards

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H333	May be harmful if inhaled
H350	May cause cancer

#### GHS Precautions

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/light/.../equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash ... thoroughly after handling

P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see ... on this label)
P330	Rinse mouth
P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists, get medical advice/attention
P370+P378	In case of fire: Use ... for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container to ...

**Signal Word: Danger**



### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
IPA	67-63-0	52.23%
BUTANOL	71-36-3	19.63%
POLYVNYL RESIN	27360-07-2	8.88%
ETHANOL	64-17-5	6.46%
POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE	11103-86-9	4.85%
ZINC HYDROXIDE	20427-58-1	3.23%
WATER	7732-18-5	2.38%
MICRO TALC	14807-96-6	1.17%
METHANOL	67-56-1	0.32%
CARBON BLACK PIGMENT	1333-86-4	0.13%

(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:

UEL:

All flashpoints: TCC

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
IPA 67-63-0	400 ppm TWA; 980 mg/m <sup>3</sup> TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m <sup>3</sup> TWA 500 ppm STEL; 1225 mg/m <sup>3</sup> STEL
BUTANOL 71-36-3	100 ppm TWA; 300 mg/m <sup>3</sup> TWA	20 ppm TWA	NIOSH: 50 ppm Ceiling; 150 mg/m <sup>3</sup> Ceiling
POLYVNYL RESIN 27360-07-2	Not Established	Not Established	Not Established

ETHANOL 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
POTASSIUM HYDROXYOCTAOXODIZIN CATEDICHROMATE 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)
ZINC HYDROXIDE 20427-58-1	5 mg/m3 TWA (respirable fraction) 15 mh/m3 TWA (total dust)	10 mg/m3 TWA (total dust)	Not Established
WATER 7732-18-5	No TLV established	No PEL established	Not Established
MICRO TALC 14807-96-6	Not Established	2 mg/m3 TWA (respirable fraction, particulate matter containing no asbestos and <1% crystalline silica)	NIOSH: 2 mg/m3 TWA (respirable dust, containing no asbestos and less than 1% quartz)
METHANOL 67-56-1	200 ppm TWA; 260 mg/m3 TWA	250 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 260 mg/m3 TWA 250 ppm STEL; 325 mg/m3 STEL
CARBON BLACK PIGMENT 1333-86-4	3.5 mg/m3 TWA	3.5 mg/m3 TWA	NIOSH: 3.5 mg/m3 TWA; 0.1 mg/m3 TWA (as PAH, carbon black in presence of polycyclic aromatic hydrocarbons)

**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> Pigmented liquid	<b>Odor</b> Solvent like
<b>Physical State</b> Liquid	<b>Vapor Density</b> 2.16
<b>Vapor Pressure</b> 26.2 mmHg	<b>Boiling Range</b> 78 to 118 °C, 173 to 244 °F
<b>Wt% Solids</b> 19.16	<b>Weight/Gallon</b> 7.35
<b>VOC(g/l) Less H2O and Exempt Compounds</b> 706.26	<b>VOC(lbs/gal) Less H2O and Exempt Compounds</b> 5.89
<b>VOC (g/L) Material</b> 692.59	<b>Specific Gravity</b> 0.88
<b>% VOC (C.A.R.B)</b> 78.64	

## 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

Oral Toxicity LD50: 1,458mg/kg

Inhalation Toxicity LC50: 55mg/L

### Component Toxicity

67-63-0

IPA

Oral LD50: 4,396 mg/kg (Rat) Inhalation LC50: 73 mg/L (Rat)

71-36-3

BUTANOL

Oral LD50: 790 mg/kg (Rat) Dermal LD50: 3,400 mg/kg (Rabbit)

64-17-5

ETHANOL

	Dermal LD50: 20 g/kg (Rat)
7732-18-5	WATER
	Oral LD50: 90 mL/kg (Rat:)
1333-86-4	CARBON BLACK PIGMENT
	Dermal LD50: 3 g/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
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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>
11103-86-9	POTASSIUM HYDROXYOCTAOXODIZINCATE DICHROMATE	4.85	POTASSIUM HYDROXYOCTAOXODIZINCATEDI CHROMATE: IARC: Human carcinogen IARC: Human carcinogen OSHA: listed ECHA CANDIDATE LIST: Human carcinogen
1333-86-4	CARBON BLACK PIGMENT	0.133	CARBON BLACK PIGMENT: NIOSH: Potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
64-17-5	ETHANOL	6.46	ETHANOL: OSHA: listed IARC: Group 1

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**

IPA	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [ static ] 48 Hr EC50 Daphnia magna: 13299 mg/L 96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 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
ETHANOL	96 Hr LC50 Oncorhynchus mykiss: 12900 mg/L [flow-through] (30 days old); 96 Hr LC50 Pimephales promelas: 14.2 mg/L 48 Hr EC50 Daphnia magna: 9268 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L
MICRO TALC	96 Hr LC50 Brachydanio rerio: >100 g/L [semi-static]
METHANOL	96 Hr LC50 Pimephales promelas: 28100 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 13200 mg/L
CARBON BLACK PIGMENT	24 Hr EC50 Daphnia magna: >5600 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

### SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable.

The following chemicals are listed under California Proposition 65:

64-17-5 ETHANOL 6.46 % Carcinogen  
11103-86-9 POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE 4.85 % Carcinogen  
1333-86-4 CARBON BLACK PIGMENT 0.13 % Carcinogen

The following chemicals appear on the New Jersey Right-To-Know Chemicals list:

1333-86-4 CARBON BLACK PIGMENT

The following chemicals appear on the Pennsylvania Right-To-Know list:

1333-86-4 CARBON BLACK PIGMENT 0.13 %

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 meet the following categories:

67-63-0 IPA Fire Hazard, Acute Health Hazard  
71-36-3 BUTANOL Fire Hazard, Acute Health Hazard  
64-17-5 ETHANOL Fire Hazard, Chronic Health Hazard  
11103-86-9 POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE Acute Health Hazard, Chronic Health Hazard  
20427-58-1 ZINC HYDROXIDE Chronic Health Hazard  
67-56-1 METHANOL Fire Hazard, Acute Health Hazard  
1333-86-4 CARBON BLACK PIGMENT Acute Health Hazard, Chronic Health Hazard

**TOXIC SUBSTANCES CONTROL ACT:**

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**

**EU Risk Phrases**

**Safety Phrase**

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:

<b>SECTION 16 - OTHER INFORMATION</b>
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The information in this document is believed to be correct as of the date printed.

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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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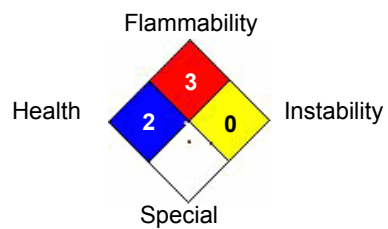
**Hazardous Material Information System (HMIS)**

**National Fire Protection Association (NFPA)**



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



Reviewer Revision

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