# PRODUCTS TECHNIQUES, INC. Safety Data Sheet

# **SECTION 1 - PRODUCT & COMPANY INFORMATION**

Product Name: MIL-V-173C FUNGUS RES.VARNISH Product Code: PT-107

Trade Name: NSN: 8010-01-387-1033 / 8010-00-180-6345

Products/Techniques, Inc.

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OPERATING HOURS: 8:00 am - 4:30 pm PDT

Product Use:

Not recommended for:

# **SECTION 2 - HAZARDS IDENTIFICATION**

HMIS:230X

## **GHS Ratings:**

1	Flash point < 23°C and initial boiling point <= 35°C (95°F)
Acute Tox. 2	Gases>100+<=500ppm, Vapors>0.5+<=2mg/l,
	Dusts&mists>0.05+<=0.5mg/l
2	Eye Irritation: Reversible adverse effects on cornea, iris,
	conjunctiva, Draize score: Corneal opacity >= 1, Iritis > 1,
	Redness >= 2, Chemosis >= 2
1	Respiratory sensitizer
1	Skin sensitizer
1A	Known Human Carcinogen Based on human evidence
	2 1 1

GHS Hazards		GHS Precautions	<u>.</u>
H224 H303	Extremely flammable liquid and vapour May be harmful if swallowed	P201 P202	Obtain special instructions before use Do not handle until all safety precautions have been read and
H313	May be harmful in contact with skin	P210	understood Keep away from heat/sparks/open
H317	May cause an allergic skin reaction	P233	flames/hot surfaces – No smoking Keep container tightly closed
H333 H334	May be harmful if inhaled May cause allergy or asthma	P240	Ground/bond container and receiving equipment
	symptoms or breathing difficulties if inhaled	P241	Use explosion-proof electrical/ventilating/light//equipment
H350	May cause cancer	P242 P243	Use only non-sparking tools  Take precautionary measures against static discharge

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P260	Do not breathe
	dust/fume/gas/mist/vapours/spray
P261	Avoid breathing
	dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling
P271	Use only outdoors or in a well-ventilated
D070	area
P272 	Contaminated work clothing should not
P280	be allowed out of the workplace
F200	Wear protective gloves/protective
P281	clothing/eye protection/face protection Use personal protective equipment as
1 201	required
P284	Wear respiratory protection
P285	In case of inadequate ventilation wear
	respiratory protection
P310	Immediately call a POISON CENTER or
	doctor/physician
P320	Specific treatment is urgent (see on
	this label)
P321	Specific treatment (see on this label)
P363	Wash contaminated clothing before
D000 D050	reuse
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P35	IF ON SKIN (or hair): Remove/Take off
3	immediately all contaminated clothing.
P304+P340	Rinse skin with water/shower  IF INHALED: Remove victim to fresh air
1 30411 340	and keep at rest in a position
	comfortable for breathing
P304+P341	IF INHALED: If breathing is difficult,
	remove victim to fresh air and keep at
	rest in a position comfortable for
	breathing
P305+P351+P33	IF IN EYES: Rinse continuously with
8	water for several minutes. Remove
	contact lenses if present and easy to
D000 - D040	do – continue rinsing
P308+P313	IF exposed or concerned: Get medical
P333+P313	advice/attention If skin irritation or a rash occurs: Get
1 333 1 313	medical advice/attention
P337+P313	Get medical advice/attention
P342+P311	Call a POISON CENTER or
	doctor/physician
P370+P378	In case of fire: Use for extinction
P405	Store locked up
P403+P233	Store in a well ventilated place. Keep
	container tightly closed
P403+P235	Store in a well ventilated place. Keep
	cool
P501	Dispose of contents/container to
1	

Danger

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There are no GHS ratings that apply to this product at this time.

## 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 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
TUNG OIL 8001-20-5 33.72 percent			
N-BUTYL ACETATE NORMAL 123-86-4 27.55 percent	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
{P TERT}BUTYLPHENOL 98-54-4 27.10 percent	Not Established	Not Established	
METHYL ETHYL KETONE 78-93-3 4.63 percent	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
ETHANOL 64-17-5 2.87 percent	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
SALICYLANILIDE ADDITIVE 87-17-2 1.08 percent			
ADDITIVE 96-29-7 0.767 percent			
MINERAL SPIRITS 8052-41-3 0.572 percent	500 ppm TWA; 2900 mg/m3 TWA	100 ppm TWA	NIOSH: 350 mg/m3 TWA 1800 mg/m3 Ceiling (15 min)
1-METHOXY-2-PROPANOL ACETATE 108-65-6 0.369 percent	TWA 50 PPM		
ZIRCONIUM ADDITIVE 22464-99-9 0.307 percent			
IPA 67-63-0 0.298 percent	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL

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METHANOL	200 ppm TWA; 260 mg/m3		NIOSH: 200 ppm TWA;
67-56-1	TWA	200 ppm TWA	260 mg/m3 TWA
0.142 percent			250 ppm STEL; 325
			mg/m3 STEL
COBALT ADDITIVE			
61789-51-3			
0.137 percent			
FORMALDEHYDE	0.75 ppm TWA	0.3 ppm Ceiling	NIOSH: 0.016 ppm TWA
50-00-0			0.1 ppm Ceiling (15 min)
0.001 percent			

# **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**

LEL: 0.0 % UEL: 11.4 %

All flashpoints: TCC

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

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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
TUNG OIL 8001-20-5			
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
{P TERT}BUTYLPHENOL 98-54-4	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
ETHANOL 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
SALICYLANILIDE ADDITIVE 87-17-2			
ADDITIVE 96-29-7			
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)
1-METHOXY-2-PROPANOL ACETATE 108-65-6	TWA 50 PPM		
ZIRCONIUM ADDITIVE 22464-99-9			
IPA 67-63-0	400 ppm TWA; 980 mg/m3 TWA	400 ppm STEL 200 ppm TWA	NIOSH: 400 ppm TWA; 980 mg/m3 TWA 500 ppm STEL; 1225 mg/m3 STEL
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
COBALT ADDITIVE 61789-51-3			
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

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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 12.9 mmHg

Wt% Solids 62.39

VOC(g/I) Less H2O and 339.52 Exempt Compounds

VOC (g/L) Material 339.52

% VOC (C.A.R.B) 37.61

Odor Solvent like

Vapor Density 3.52

Boiling Range 0 to 237 °C, 32 to 459

°F

Weight/Gallon 7.54

VOC(lbs/gal) Less H2O and 2.83 Exempt Compounds

Specific Gravity 0.90

## **SECTION 10 - REACTIVITY & STABILITY**

STABILITY:

STABLE

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

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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: 1mg/L

**Component Toxicity** 

omponent loxicity	
123-86-4	N-BUTYL ACETATE NORMAL
	Inhalation: 390 ppm (Rat)
98-54-4	{P TERT}BUTYLPHENOL
	Oral: 2,990 mg/kg (Rat) Dermal: 2,318 mg/kg (Rabbit)
78-93-3	METHYL ETHYL KETONE
	Oral: 2,737 mg/kg (Rat) Inhalation: 32 g/m3 (Mouse)
64-17-5	ETHANOL
	Dermal: 20 g/kg (Rat)
96-29-7	ADDITIVE
	Oral: 930 mg/kg (Rat) Inhalation: 20 mg/L (Rat)
108-65-6	1-METHOXY-2-PROPANOL ACETATE
	Dermal: 5,000 mg/kg (Rabbit:) Inhalation: 100 ppm (Rat)
67-63-0	IPA
	Oral: 4,396 mg/kg (Rat) Inhalation: 73 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 Central Nervous System Reproductive System

Skin GI Tract Respiratory System

**Effects of Overexposure** 

**CARCINOGENICITY:** 

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

50-00-0 FORMALDEHYDE 0.001 FORMALDEHYDE: NIOSH:

potential occupational carcinogen

IARC: Human carcinogen

OSHA: listed

61789-51-3 COBALT ADDITIVE 0.137 COBALT ADDITIVE: IARC:

Possible human carcinogen

OSHA: listed

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2.87 ETHANOL: OSHA: listed

IARC: Group 1

# **SECTION 12 - ECOLOGICAL INFORMATION**

No information available.

**Component Ecotoxicity** 

#### **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.

<b>Agency</b>	Proper Shipping Name	<b>UN Number</b>	Packing Group	<b>Hazard Class</b>
DOT	PAINT	UN1263	II	3
IATA	PAINT	UN1263	II	3
IMO	PAINT	UN1263	II	3

## **SECTION 15 - REGULATORY INFORMATION**

Additional regulatory listings, where applicable.

The following chemicals are listed under California Proposition 65:

61789-51-3 COBALT ADDITIVE 0.14 % Mutagen

64-17-5 ETHANOL 2.87 % Carcinogen

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

78-93-3 METHYL ETHYL KETONE

123-86-4 N-BUTYL ACETATE NORMAL

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

78-93-3 METHYL ETHYL KETONE 4.63 %

123-86-4 N-BUTYL ACETATE NORMAL 27.55 %

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:

61789-51-3 COBALT ADDITIVE Fire Hazard, Acute Health Hazard, Chronic Health Hazard

67-56-1 METHANOL Fire Hazard, Acute Health Hazard

64-17-5 ETHANOL Fire Hazard, Chronic Health Hazard

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78-93-3 METHYL ETHYL KETONE Fire Hazard, Acute Health Hazard, Chronic Health Hazard 123-86-4 N-BUTYL ACETATE NORMAL Fire Hazard, Acute 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



#### **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:

61789-51-3 COBALT ADDITIVE 0.14%

#### **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

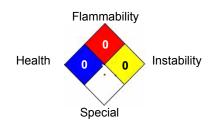
1 = SLIGHT

2 = MODERATE

3 = HIGH

Date Prepared: 3/18/2016

#### National Fire Protection Association (NFPA)



Reviewer Revision

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