

PRODUCTS TECHNIQUES, INC.
Safety Data Sheet

SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name TT-E-489J LOW VOC GLOSS BLACK Product Code PT-381#17038

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)
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	1B	Presumed Human Carcinogen. Based on demonstrated animal carcinogenicity

GHS Hazards

H226	Flammable liquid and vapour
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H333	May be harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties 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/lighting 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
P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace

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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 laundry 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 120.00

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 FIRE-FIGHTING 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

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P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P285	In case of inadequate ventilation wear respiratory protection
P311	Call a POISON CENTER or doctor/physician
P321	Specific treatment (see on this label)
P363	Wash contaminated clothing before reuse
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.
P304+P340	IF INHALED: Remove victim to fresh air 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+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.
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

Signal Word: **Danger**



SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
NON-HAZARDOUS INGREDIENTS	NHI	29.59%
INERT MATERIAL	INERT	25.82%
N-BUTYL ACETATE NORMAL	123-86-4	15.81%
2-PENTANONE	107-87-9	15.31%
CARBON BLACK PIGMENT	1333-86-4	5.16%
XYLENE	1330-20-7	2.04%
METHYL ISOBUTYL KETONE SOLVENT	108-10-1	1.53%
MINERAL SPIRITS	8052-41-3	1.13%
COBALT ADDITIVE	61789-51-3	1.12%
(ETHYL-3-OXOBUTANOATO-0"1,0"3)(2-DIMETHYLAMINO)ETBANOLATO)(1-METHOXYPROPAN-OLATO)ALUMINUM(H1) DIMERISED	149057-70-5	1.09%
ADDITIVE	96-29-7	0.73%
1-METHOXY-2-PROPANOL ACETATE	108-65-6	0.15%
1-METHOXY-2-PROPANOL	107-98-2	0.05%
PHOSPHORIC ACID	7664-38-2	0.01%

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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
NON-HAZARDOUS INGREDIENTS	Not Established	Not Established	Not Established
NHI			
INERT MATERIAL	Not Established	Not Established	Not Established
INERT			
N-BUTYL ACETATE NORMAL	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
123-86-4			
2-PENTANONE	200 ppm TWA; 700 mg/m ³ TWA	150 ppm STEL	NIOSH: 150 ppm TWA; 530 mg/m ³ TWA
107-87-9			
CARBON BLACK PIGMENT	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	NIOSH: 3.5 mg/m ³ TWA; 0.1 mg/m ³ TWA (as PAH: carbon black in presence of polycyclic aromatic hydrocarbons)
1333-86-4			
XYLENE	100 ppm TWA; 435 mg/m ³ TWA	150 ppm STEL 100 ppm TWA	Not Established
1330-20-7			
METHYL ISOBUTYL KETONE SOLVENT	100 ppm TWA; 410 mg/m ³ TWA	75 ppm STEL 50 ppm TWA	NIOSH: 50 ppm TWA; 205 mg/m ³ TWA 75 ppm STEL: 300 mg/m ³ STEL
108-10-1			
MINERAL SPIRITS	500 ppm TWA; 2900 mg/m ³ TWA	100 ppm TWA	NIOSH: 350 mg/m ³ TWA 1800 mg/m ³ Ceiling (15 min)
8052-41-3			
COBALT ADDITIVE	Not Established	Not Established	Not Established
61789-51-3			
(ETHYL-3-OXOBUTANOATO-0"1,0"3)(2-DIMETHYLAMINO)ETBANOLATO)(1-METHOXYPROPAN-OLATO)ALUMINUM(H1) DIMERISED	Not Established	Not Established	Not Established
149057-70-5			
ADDITIVE	Not Established	Not Established	Not Established
96-29-7			
1-METHOXY-2-PROPANOL ACETATE	TWA 50 PPM	Not Established	Not Established
108-65-6			
1-METHOXY-2-PROPANOL	Not Established	150 ppm STEL 100 ppm TWA	NIOSH: 100 ppm TWA; 360 mg/m ³ TWA 150 ppm STEL: 540 mg/m ³ STEL
107-98-2			
PHOSPHORIC ACID	1 mg/m ³ TWA	3 mg/m ³ STEL 1 mg/m ³ TWA	NIOSH: 1 mg/m ³ TWA 3 mg/m ³ STEL
7664-38-2			

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

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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:

Appearance: Pigmented liquid	Odor: Solvent like
Physical State: Liquid	Vapor Density: 3.93
Vapor Pressure: 8.7 mmHg	Boiling Range: 0 to 300 °C, 32 to 572 °F
Wt% Solids: 72.28	Weight/Gallon: 8.59
VOC (g/l): Less H ₂ O and 285.33 Exempt Compounds	VOC (lbs/gal): Less H ₂ O and 2.38 Exempt Compounds
VOC (g/L): Material 285.33	Specific Gravity: 1.03
% VOC (C.A.R.B.): 27.72	

SECTION 10 - REACTIVITY & STABILITY

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CAS Number	Description	% Weight	Carcinogen Rating
1333-86-4	CARBON BLACK PIGMENT	5.16	CARBON BLACK PIGMENT: NIOSH: Potential occupational carcinogen. IARC: Possible human carcinogen. OSHA: listed.
61789-51-3	COBALT ADDITIVE	1.12	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	
N-BUTYL ACETATE: NORMAL	96 Hr LC50 <i>Leuciscus idus</i> : 62 mg/L [static] 48 Hr EC50 water flea: 44 mg/L 96 Hr EC50 <i>Scenedesmus subspicatus</i> : 320 mg/L; 72 Hr EC50 <i>Scenedesmus subspicatus</i> : 674.7 mg/L
2-PENTANONE	96 Hr LC50 <i>Pimephales promelas</i> : 1240 mg/L [flow-through]
CARBON BLACK PIGMENT	24 Hr EC50 <i>Daphnia magna</i> : >5600 mg/L
XYLENE	96 Hr LC50 <i>Pimephales promelas</i> : 13.4 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 8.05 mg/L [flow-through]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 16.1 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 26.7 mg/L [static] 48 Hr EC50 water flea: 3.82 mg/L; 48 Hr LC50 <i>Gammarus lacustris</i> : 0.6 mg/L
METHYL ISOBUTYL KETONE SOLVENT	96 Hr LC50 <i>Pimephales promelas</i> : 505 mg/L [flow-through] 24 Hr EC50 water flea: 4280.0 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 170 mg/L 96 Hr EC50 <i>Selenastrum capricornutum</i> : 400 mg/L
ADDITIVE	96 Hr LC50 <i>Leuciscus idus</i> : 320-1000 mg/L [static]; 96 Hr LC50 <i>Poecilia reticulata</i> : 760 mg/L [static] 48 Hr EC50 <i>Daphnia magna</i> : 750 mg/L 72 Hr EC50 <i>Scenedesmus subspicatus</i> : 83 mg/L
1-METHOXY-2-PROPANOL ACETATE	96 Hr LC50 <i>Pimephales promelas</i> : 161 mg/L [static] 48 Hr EC50 <i>Daphnia magna</i> : >500 mg/L
1-METHOXY-2-PROPANOL	96 Hr LC50 <i>Pimephales promelas</i> : 20.8 g/L [static]; 96 Hr LC50 <i>Leuciscus idus</i> : 4500-10000 mg/L [static] 96 Hr EC50 water flea: 10457 mg/L
PHOSPHORIC ACID	96 Hr LC50 <i>Gambusia affinis</i> : 3-3.5 mg/L 12 Hr EC50 <i>Daphnia magna</i> : 4.6 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.

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STABILITY

STABLE

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

CONDITIONS TO AVOID: Avoid all possible sources of ignition.

Stability/Reactivity 1 - phrase code not on file.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide (CO) and carbon dioxide (CO₂). Other unknown hazardous products are possible.

HazDecomp 2 - phrase code not on file.

Hazardous polymerization will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 431 mg/L

Component Toxicity

123-86-4	N-BUTYL ACETATE: NORMAL Inhalation LC50: 390 ppm (Rat)
107-87-9	2-PENTANONE Oral LD50: 1,600 mg/kg (Rat)
1333-86-4	CARBON BLACK PIGMENT Dermal LD50: 3 g/kg (Rabbit)
61789-51-3	COBALT ADDITIVE Oral LD50: 3,900 mg/kg (Rat)
149057-70-5	(ETHYL-3-OXOBUTANOATE-0*1,0*3);(2-DIMETHYLAMINO)ETBANOLATO)(1-METHOXYPROPAN-OLATO)ALUMINUM(H1), DIMERISED Oral LD50: 5,000 mg/kg (Rat); Dermal LD50: 2,000 mg/kg (Rat)
108-65-6	1-METHOXY-2-PROPANOL ACETATE Dermal LD50: 5,000 mg/kg (Rabbit); Inhalation LC50: 100 ppm (Rat)
107-98-2	1-METHOXY-2-PROPANOL Inhalation LC50: 24 mg/L (Rat)
7664-38-2	PHOSPHORIC ACID Oral LD50: 1,530 mg/kg (Rat); Dermal LD50: 2,730 mg/kg (Rabbit); Inhalation LC50: 850 mg/m ³

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:			
Blood	Eyes	Kidneys	Liver
Respiratory System			Central Nervous System
			Reproductive System
			Skin

Effects of Overexposure:

CARCINOGENICITY:

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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
DOT	PAINT	UN1263	II	3

SECTION 15 - REGULATORY INFORMATION

Additional regulatory listings, where applicable:

Country	Regulation	All Components Listed
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EU Risk Phrases

R25: Toxic if swallowed
R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin, or ingestion
R48/23/25: Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

Safety Phrase

S2: Keep out of the reach of children
S15: Keep away from heat
S16: Keep away from sources of ignition - No smoking
S18: Handle and open container with care
S20: When using do not eat or drink
S21: When using do not smoke
S20/21: When using do not eat, drink or smoke
S24/25: Avoid contact with skin and eyes
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

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 1.1%

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SECTION 16 - OTHER INFORMATION

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.

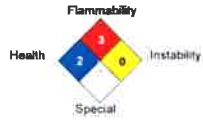
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Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

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

National Fire Protection Association (NFPA)



Reviewer Revision

Date Prepared: 7/20/2016