

PRODUCTS TECHNIQUES, INC.

Safety Data Sheet

SECTION 1 - PRODUCT & COMPANY INFORMATION

Product Name: TT-P-1757A/B TY.I/II GREEN PRIMER Product Code: PT-522GREEN

Trade Name: NSN:8010-00-145-0312/8010-00-582-5318 CAGE CODE: 06341

MANUFACTURER:
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

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

In an emergency, call:
CHEMTREC: 1.800.424.9300

Product Use:
Not recommended for:

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		
Inhalation Toxicity	Acute Tox. 3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts&mists>0.5+<=1mg/l
Respiratory sensitizer	1	Respiratory sensitizer
Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence

GHS Hazards

H225	Highly 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/light/.../equipment
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
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
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: 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 ...

Danger



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
POTASSIUM HYDROXYOCTAOXODIZINC ATEDICHROMATE 11103-86-9 30.07 percent	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 18.44 percent	Not Established	Not Established	
ACETONE 67-64-1 17.21 percent Vapor Pressure: 174.765 mmHg	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 7.53 percent Vapor Pressure: 2 mmHg	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 5.82 percent Vapor Pressure: 7 mm/Hg	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL 100 ppm TWA	
N-BUTYL ACETATE NORMAL 123-86-4 4.67 percent Vapor Pressure: 9.751 mmHg	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
BARTEX ADDITIVE 7727-43-7 4.49 percent	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)
NON-HAZARDOUS INGREDIENTS NHI 4.08 percent			
METHYL ETHYL KETONE 78-93-3 3.58 percent Vapor Pressure: 75.756 mmHg	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 2.08 percent			
ETHYLBENZENE 100-41-4 0.485 percent Vapor Pressure: 7.126 mmHg	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 0.416 percent Vapor Pressure: .99 mmHg @ 20C			

1-METHOXY-2-PROPANOL ACETATE 108-65-6 0.363 percent Vapor Pressure: 3.675 mmHg	TWA 50 PPM		
ADDITIVE 96-29-7 0.159 percent Vapor Pressure: 2.625 mmHg			
{P TERT}BUTYLPHENOL 98-54-4 0.159 percent Vapor Pressure: .225 mmHg	Not Established	Not Established	
ZIRCONIUM ADDITIVE 22464-99-9 0.130 percent Vapor Pressure: 1.5 mm Hg			
WATER (1) 7732-18-5 0.110 percent	No TLV established	No PEL established	
COBALT ADDITIVE 61789-51-3 0.088 percent Vapor Pressure: 1.5 mm Hg			
FORMALDEHYDE 50-00-0 0.000 percent Vapor Pressure: .002 mmHg	0.75 ppm TWA	0.3 ppm Ceiling	NIOSH: 0.016 ppm TWA 0.1 ppm Ceiling (15 min)

(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

LEL: 1.0 %

UEL: 12.8 %

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 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 HYDROXYOCTAOXODIZINC ATEDICHROMATE 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	
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	
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
BARTEX ADDITIVE 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)
NON-HAZARDOUS INGREDIENTS NHI			

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			
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			
1-METHOXY-2-PROPANOL ACETATE 108-65-6	TWA 50 PPM		
ADDITIVE 96-29-7			
{P TERT}BUTYLPHENOL 98-54-4	Not Established	Not Established	
ZIRCONIUM ADDITIVE 22464-99-9			
WATER 7732-18-5	No TLV established	No PEL established	
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 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
Physical State Liquid	Vapor Density 2.64
Vapor Pressure 105.5 mmHg	Boiling Range 56 to 148 °C, 133 to 298 °F
Wt% Solids 61.19	Weight/Gallon 10.89
VOC(g/l) Less H2O and Exempt Compounds 385.68	VOC(lbs/gal) Less H2O and Exempt Compounds 3.21
VOC (g/L) Material 281.03	Specific Gravity 1.31
% VOC (C.A.R.B) 21.53	

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

Inhalation Toxicity: 9mg/L

Component Toxicity

123-86-4	N-BUTYL ACETATE NORMAL Inhalation: 390 ppm (Rat)
100-41-4	ETHYLBENZENE Oral: 3,500 mg/kg (Rat) Inhalation: 17 mg/L (Rat)
108-65-6	1-METHOXY-2-PROPANOL ACETATE Dermal: 5,000 mg/kg (Rabbit:) Inhalation: 100 ppm (Rat)
96-29-7	ADDITIVE

98-54-4 Oral: 930 mg/kg (Rat) Inhalation: 20 mg/L (Rat)
 {P TERT}BUTYLPHENOL
 Oral: 2,990 mg/kg (Rat) Dermal: 2,318 mg/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		
Exposure to this material may affect the following organs:					
Blood System	Eyes Skin	Kidneys Heart	Liver Lungs Respiratory System	Central Nervous System	Reproductive
Effects of Overexposure					

CARCINOGENICITY:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
11103-86-9	POTASSIUM HYDROXYOCTAOXODIZINCATED ICHROMATE	30.07	POTASSIUM HYDROXYOCTAOXODIZINCATED ICHROMATE: 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	0.088	COBALT ADDITIVE: IARC: Possible human carcinogen OSHA: listed

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.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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:

11103-86-9 POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE 30.07 % 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
1330-20-7 XYLENE
8052-41-3 MINERAL SPIRITS

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

78-93-3 METHYL ETHYL KETONE 3.58 %
123-86-4 N-BUTYL ACETATE NORMAL 4.67 %
8052-41-3 MINERAL SPIRITS 7.53 %

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:

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
1330-20-7 XYLENE Fire Hazard, Acute Health Hazard, Chronic Health Hazard
8052-41-3 MINERAL SPIRITS Fire Hazard
67-64-1 ACETONE Fire Hazard, Acute Health Hazard
11103-86-9 POTASSIUM HYDROXYOCTAOXODIZINCATEDICHROMATE 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



EU Risk Phrases

R10: Flammable

R20: Harmful by inhalation
 R25: Toxic if swallowed
 R36: Irritating to eyes
 R45: May cause cancer
 R48: Danger of serious damage to health by prolonged exposure
 R49: May cause cancer by inhalation

Safety Phrase

S16: Keep away from sources of ignition - No smoking
 S22: Do not breathe dust
 S38: In case of insufficient ventilation wear suitable respiratory equipment
 S60: This material and its container must be disposed of as hazardous waste
 S1/2: Keep locked up and out of the reach of children
 S3/7: Keep container tightly closed in a cool place
 S20/21: When using do not eat, drink or smoke
 S24/25: Avoid contact with skin and eyes
 S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
 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 0.09%

SECTION 16 - OTHER INFORMATION

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

NO WARRANTY OF MERCHANTABILITY, 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.

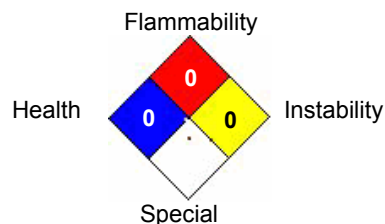
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Hazardous Material Information System (HMIS)

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

National Fire Protection Association (NFPA)



Date Prepared: 6/3/2016

Reviewer Revision