SAFETY DATA SHEET

Date Revised: 2/18/14 Date Printed: 4/8/15 MANUFACTURER:SIERRA CORP/TK PRODUCTSEMERGENCY PHONE:1-800-424-9300ADDRESS:11400 WEST 47TH STREETINFORMATION PHONE:(952) 938-7223MINNETONKA, MN55343NAME OF PREPARER :Safety Director PRODUCT NAME: EPOXY PENETRATING SEALER , PART A PRODUCT CODE: TK-2675 A HAZARD RISK CLASSIFICATION SIGNAL WORD: DANGER PICTOGRAM: GHS02 - FLAME GHS07 - EXCLAMATION MARK GHS08 - HEALTH HAZARD GHS09 -ENVIRONMENT HAZARD CLASS HAZARD CATEGORY CATEGORY 2 FLAMMABLE LIQUIDS ACUTE TOXICITY CATEGORY 4 ORAL ACUTE TOXICITY CATEGORY 4 DERMAL CATEGORY 4 INHALATION ACUTE TOXICITY CATEGORY 2 SKIN CORROSION / IRRITATION SERIOUS EYE DAMAGE / CATEGORY 2 AND 2A EYE IRRITATION SKIN SENSITIZER CATEGORY 1 CATEGORY 2 CARCINOGENICITY TOXIC TO SPECIFIC TARGET ORGAN CATEGORY 3 TOXICITY - SINGLE EXPOSURE TOXIC TO SPECIFIC TARGET ORGAN CATEGORY 2 TOXICITY - REPEATED EXPOSURE ASPIRATION HAZARD CATEGORY 1 HAZARDOUS TO THE AQUATIC ACUTE 3 ENVIRONMENT SHORT-TERM (ACUTE) HAZARDOUS TO THE AQUATIC CHRONIC 2 ENVIRONMENT LONG-TERM (CHRONIC) HAZARD STATEMENTS: H225 Highly flammable liquid and vapor May be fatal if swallowed or enters airways Causes skin irritation н304 Н315 May cause allergic skin reaction Causes serious eye irritation. May cause respiratory irritation Suspected of causing cancer. Н317 Н319 н335 н351 н373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects PRECAUTIONARY STATEMENTS: PREVENTION: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/hot surfaces/sparks/open flames and other sources of ignition. No smoking.

2/18/14 Date Printed: 4/8/15 Date Revised: P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical / ventilation/lighting/handling equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharge. P260 Do not breath dusts/fume/gas/mist/vapors or spray. P264 Wash hands and any exposed area thoroughly after handling. P270 Do not eat, drink or smoke while using this product. P271 Use only outdoors or in well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. Use appropriate personal protective impervious gloves/protective P281 clothing/ OSHA approved eye protection/ face protection. **RESPONSE:** P301+P310 If swallowed: Immediately call a Poison Center / doctor. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment (see on this label) P330 Rinse mouth. P331 Do NOT induce vomiting. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. P337+P313 P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use carbon dioxide (CO2), powder, alcoholresistant foam to extinguish. STORAGE : P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. DISPOSAL: P501 Store separately. Dispose of contents/ container in accordance

with local/ regional/national /international regulations.

========== SECTION 3 -	COMPOSITION/I	NFORMATION ON WEIGHT	N INGREDIENTS ====================================
COMPONENT	CAS NUMBER	PERCENT	OSHA PEL ACGIH TLV OTHER
+*^ Xylene, mixed isomers	1330-20-7	19.18	
			100 PPM 100 PPM STEL 150 PPM
Epichlorohydrin Copolymer	25068-38-6	10-25	
			NOT ESTABLISHED
+^ 2-Methyl 4-Pentanone	108-10-1	10.81	
			50 PPM 50 PPM STEL 75 PPM
+*^ Ethyl Benzene	100-41-4	3.40	
			100 PPM 100 PPM STEL 125 PPM

* Chemical(s) that are chronic health hazards. Refer to section 3 for further information.

+ Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

^ Hazardous Air Pollutant established by the EPA as directed by the Clean Air Act of 1990.

PRIMARY ROUTES OF EXPOSURE:

Skin contact, eye contact, and inhalation.

EFFECTS OF ACUTE EXPOSURE:

EYES: Contact with eyes may cause irritation including burning, watering, and redness.

SKIN: Contact may cause mild skin irritation including redness, burning, and drying and cracking of skin. Continued exposure may develop into dermatitis. Solvents can penetrate the skin and cause systematic effects similar to those under inhalation symptoms.

INHALATION: High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches,

dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.

INGESTION: Can cause gastrointestinal irritation, nausea, vomitting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

CHRONIC HEALTH EFFECTS:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (Sometimes referred to as Solvent or Painter's Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal. Chronic exposure may also cause damage to the respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys. Repeated skin contact may cause persistant irritation or dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Conditions aggrevated by exposure may include skin disorders, respiratory (asthma-like) disorders, and pre-existing liver or kidney conditions.

IF ON SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. If irritation develops and persists, seek medical attention.

IF IN EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. If symptoms persist, seek medical attention.

If SWALLOWED: Do not induce vomiting. Immediately administer 1-2 glasses of water and contact a physician, hospital emergency room, or poison control center for further advice. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

INHALATION: Move affected individual to fresh air. If breathing is difficult, qualified personnel should administer oxygen. If breathing has stopped give artificial respiration. If respiratory symptoms develop or persist, seek medical attention.

Foam, CO2, or dry chemical is recommended. Water spray is recommended to cool or protect exposed materials or structures.

SPECIAL FIREFIGHTING PROCEDURES:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out. Water may be ineffecive for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen, exercise caution when using CO2 in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may be ignited by heat, sparks, flames, or other sources of ignition. Vapors are heavier than air and may travel considerable distances to a source of ignition where they may cause a flashback or explosion. If container is not properly cooled, it can rupture in the presence of excessive heat.

Keep all sources of ignition and hot metal surfaces away from spill/release. Use explosion-proof non-sparking equipment. Stay upwind from area. Isolate danger and keep unauthorized personnel out. Stop source of release if possible with minimal risk. Wear appropriate protective equipment including respiratory protection. Prevent spill from

entering sewers, storm drains, or any other unauthorized treatment drainage systems and natural waterways by diking ahead of the spill. Spilled material may be absorbed with an appropriate spill kit. Notify fire authorities and appropriate federal, state, and local agencies if required.

HANDLING INFORMATION:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communication Standard.

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Static charge can accumulate by flow or agitation. Ignition can occur by static discharage. The use of explosion proof equipment is recommended and may be required. The use of respiratory protection is advised when concentrations exceed any established exposure limits and in confined spaces. Use good industrial and personal hygiene practice, wash thoroughly after handling, and do not wear contaminated clothing.

STORAGE INFORMATION:

Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.

OTHER PRECAUTIONS:

"Empty" containers retain residue, liquid and vapor, and may be dangerous. Do not cut, weld, pressurize, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may expode and cause severe personal injury or death. All containers should be disposed of in an environmentally safe manner in accordance with all government regulations.

Engineering or administrative controls should be implemented to reduce exposure. A NIOSH/MSHA approved respirator with an organic vapor cartridge should be used under conditions where airborne concentrations are expected to exceed exposure limits (See Section 2). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

PROTECTIVE GLOVES:

Prevent prolonged or repeated contact by wearing gloves impervious to solvents and other appropriate protective clothing. Launder contaminated clothing before reuse.

EYE PROTECTION:

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company quidlines.

================== SECTION 9 - PHYSICA	L AND CHEMICAL PROPERTIES ====================================
PHYSICAL STATE: Liquid	COLOR: Various colors
ODOR: Hydrocarbon odor Odorless.	SOLUBILITY IN WATER: Insoluble/Negligible
SPECIFIC GRAVITY (H2O=1): 1.03	VAPOR DENSITY: Heavier than air.
BOILING RANGE: 243 F - 500 F	EVAPORATION RATE: Faster than nBuAc
COATING V.O.C.: 345 g/l (2.88 lb/gl)	

STABILITY:

Stable under normal conditions and handling. CONDITIONS TO AVOID:

Date Printed: 4/8/15

2/18/14 Date Revised:

All possible sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid exposure to strong oxidizing agents and reducing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Combustion may liberate toxic byproducts such as carbon dioxide, carbon monoxide, various oxides of carbon and nitrogen. HAZARDOUS POLYMERIZATION:

Will not occur.

SENSITIZATION:

Product is a skin sensitizer; sensitization can be severe in susceptible individuals.

CARCINOGENICITY:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard. REPRODUCTIVE TOXICITY:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

TERATOGENICITY (BIRTH DEFECTS):

There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

MUTAGENICITY:

There is no data to indicate that any component present at greater than 0.1% will alter DNA.

ENVIRONMENTAL DATA:

Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects. Trimethylbenzene is a marine pollutant under 49 CFR 172.101.

This product is considered a RCRA hazardous waste due to the characterisic(s) of D001 (ignitability). Waste is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers empty prior to discarding. Container rinsate could be considered a RCRA hazardous waste and must be discarded in compliance with all applicable regulations. Larger empty containers, such as drums, should be returned to a professional drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

SHIPPING NAME:

UN1263, Paint, 3, II

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Subatances Control Act (TSCA) chemical substance inventory.

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 2.

STATE SPECIFIC REQUIREMENTS:

This product contains a chemical(s) known to the state of California to cause cancer, birth defects or reproductive harm, which are subject to the requirements of California Proposition 65. Phenylglycidyl ether (trace amounts)

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE .
Phenylglycidyl Ether	122-60-1	CA
Methlyl Isobutyl Ketone	108-10-1	CA, CT, FL, IL, LA, ME, MN, NJ, PA, RI
Ethyl Benzene	100-41-4	CA, NJ, PA
Trimethylbenzene	95-63-6	CA, MA, MN, NJ, PA

	=======	===SECTION	16 -	OTHER	INFORMATION	
REVISION DATE:	02/18/3	14				
HMIS CODES: H		F	R	1	P	
2	*	3	0		I	

Date Revised: 2/18/14 Date Printed: 4/8/15 MANUFACTURER:SIERRA CORP/TK PRODUCTSEMERGENCY PHONE:1-800-424-9300ADDRESS:11400 WEST 47TH STREETINFORMATION PHONE:(952) 938-7223MINNETONKA, MN55343NAME OF PREPARER :Safety Director PRODUCT NAME: EPOXY PENETRATING SEALER, PART B PRODUCT CODE: TK-2675 B HAZARD RISK CLASSIFICATION SIGNAL WORD: DANGER PICTOGRAM: GHS02 - FLAME GHS05 - CORROSION GHS06 - SKULL AND CROSSBONES GHS07 -EXCLAMATION MARK GHS08 - HEALTH HAZARD GHS09 - ENVIRONMENT HAZARD CLASS HAZARD CATEGORY CATEGORY 2 FLAMMABLE LIQUIDS ACUTE TOXICITY CATEGORY 3 DERMAL CATEGORY 4 ORAL ACUTE TOXICITY CATEGORY 4 INHALATION ACUTE TOXICITY CATEGORY 1 SKIN CORROSION / IRRITATION SERIOUS EYE DAMAGE / CATEGORY 1 EYE IRRITATION RESPIRATORY SENSITIZER CATEGORY 1 SKIN SENSITIZER CATEGORY 1 CATEGORY 2 CARCINOGENICITY TOXIC TO SPECIFIC TARGET ORGAN CATEGORY 3 TOXICITY - SINGLE EXPOSURE TOXIC TO SPECIFIC TARGET ORGAN CATEGORY 2 TOXICITY - REPEATED EXPOSURE HAZARDOUS TO THE AQUATIC CATEGORY 1 ACUTE 3 ENVIRONMENT SHORT-TERM (ACUTE) HAZARDOUS TO THE AQUATIC CHRONIC 2 ENVIRONMENT LONG-TERM (CHRONIC) HAZARD STATEMENTS: H225 Highly flammable liquid and vapor H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled H304 May be fatal if swallowed or enters airways Н311 Toxic in contact with skin Н314 Causes severe skin burns and eye damage Н317 May cause allergic skin reaction н318 Causes serious eye damage May cause allergy or asthma symptoms or breathing difficulties if н334 inhaled May cause respiratory irritation May cause drowsiness or dizziness Suspected of causing cancer. н335 н336 H351 н373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects

Date Printed: 4/8/15

Date Revised.	
PREVENTION:	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and
understood.	
P210	Keep away from heat/hot surfaces/sparks/open flames and other
-	ition. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical / ventilation/lighting/handling
equipment.	
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P260	Do not breath dusts/fume/gas/mist/vapors or spray.
P264	Wash hands and any exposed area thoroughly after handling.
P270	Do not eat, drink or smoke while using this product.
P271	Use only outdoors or in well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the
workplace.	
P281	Use appropriate personal protective impervious gloves/protective
-	approved eye protection/ face protection.
P285	In case of inadequate ventilation wear appropriate organic vapor
respiratory pro	otection.
55650005	
RESPONSE:	The suplice of the sell of Deisen Conten / dester
P301+P310	If swallowed: Immediately call a Poison Center / doctor.
	If swallowed: Rinse mouth. Do NOT induce vomiting.
	If on skin (or hair): Take off immediately all contaminated e skin with water (or shower).
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for
breathing.	II Innaled. Remove person to flesh all and keep comfortable for
-	If in eyes: Rinse cautiously with water for several minutes.
	lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/ emergency responder.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see on this label)
P322	Specific measures (see on this label)
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a Poison
Center/doctor.	
P361+P363	Take off immediately all contaminated clothing and wash before
reuse.	
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use carbon dioxide (CO2), powder, alcohol-
resistant foam	to extinguish.
STORAGE :	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
DISPOSAL:	
P501	Store separately. Dispose of contents/ container in accordance
with local/ reg	gional/national /international regulations.
	SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS ====================================

SAFETY DATA SHEET

Date Revised: 2/18/14

Date Printed: 4/8/15

		WEIGHT	EXPOSURE LIMITS
COMPONENT	CAS NUMBER	PERCENT	OSHA PEL ACGIH TLV OTHER
* 2-Propanone, Acetone	67-64-1	35.1	
			750 PPM 750 PPM 1000 PPM
*^ Xylene, mixed isomers	1330-20-7	29.14	
			100 PPM 100 PPM STEL 150 PPM
-Nonyl Hydroxybenzene, Nonylphenol	84852-15-3	1-10	
			NOT ESTABLISHED
*^ Ethyl Benzene	100-41-4	5.16	
			100 PPM 100 PPM STEL 125 PPM
1,2-Ethanediamine, N,N'-bis-(2-Aminoet	hyl)-112-24-3	1-10	
			NOT ESTABLISHED

* Chemical(s) that are chronic health hazards. Refer to section 3 for further information.

+ Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

^ Hazardous Air Pollutant established by the EPA as directed by the Clean Air Act of 1990.

PRIMARY ROUTES OF EXPOSURE:

Skin contact, eye contact, and inhalation.

EFFECTS OF ACUTE EXPOSURE:

EYES: Corrosive to eyes. Contact with eyes may cause severe irritation and burns.

SKIN: Corrosive to skin and mucous membranes. Contact with skin may cause severe irritation and burns. May be absorbed through skin in toxic amounts.

INHALATION: High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.

INGESTION: Can cause gastrointestinal irritation, nausea, vomitting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

CHRONIC HEALTH EFFECTS:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (Sometimes referred to as Solvent or Painter's Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal. Chronic exposure may also cause damage to the respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys. Repeated skin contact may cause persistant irritation or dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Conditions aggrevated by exposure may include skin disorders, respiratory (asthma-like) disorders, and pre-existing liver or kidney conditions.

IF ON SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. If irritation develops and persists, seek medical attention.

IF IN EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. If symptoms persist, seek medical attention.

If SWALLOWED: Do not induce vomiting. Immediately administer 1-2 glasses of water and contact a physician, hospital emergency room, or poison control center for further advice. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

INHALATION: Move affected individual to fresh air. If breathing is difficult, qualified personnel should administer oxygen. If breathing has stopped give artificial respiration. If respiratory symptoms develop or persist, seek medical attention.

	SECTION	5 -	FIRE	AND	EXPLOSION	HAZARD	DATA	
FLASH POINT: -15 F					METHOD USED:	TCC		
FLAMMABLE LIMITS IN AIR BY	VOLUME- LOWE	R: 1				UPPER	: 12.8	
EXTINGUISHING MEDIA:								
The cool and down allowed as	1 4					1		

Foam, CO2, or dry chemical is recommended. Water spray is recommended to cool or protect exposed materials or structures.

SPECIAL FIREFIGHTING PROCEDURES:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out. Water may be ineffecive for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen, exercise caution when using CO2 in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors may be ignited by heat, sparks, flames, or other sources of ignition. Vapors are heavier than air and may travel considerable distances to a source of ignition where they may cause a flashback or explosion. If container is not properly cooled, it can rupture in the presence of excessive heat.

Keep all sources of ignition and hot metal surfaces away from spill/release. Use explosion-proof non-sparking equipment. Stay upwind from area. Isolate danger and keep unauthorized personnel out. Stop source of release if possible with minimal risk. Wear appropriate protective equipment including respiratory protection. Prevent spill from entering sewers, storm drains, or any other unauthorized treatment drainage systems and natural waterways by diking ahead of the spill. Spilled material may be absorbed with an appropriate spill kit. Notify fire authorities and appropriate federal, state, and local agencies if required.

HANDLING INFORMATION:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communication Standard.

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Static charge can accumulate by flow or agitation. Ignition can occur by static discharage. The use of explosion proof equipment is recommended and may be required. The use of respiratory protection is advised when concentrations exceed any established exposure limits and in confined spaces. Use good industrial and personal hygiene practice, wash thoroughly after handling, and do not wear contaminated clothing.

STORAGE INFORMATION:

Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.

OTHER PRECAUTIONS:

"Empty" containers retain residue, liquid and vapor, and may be dangerous. Do not cut, weld, pressurize, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may expode and cause severe personal injury or death. All containers should be disposed of in an environmentally safe manner in accordance with all government regulations.

Engineering or administrative controls should be implemented to reduce exposure. A NIOSH/MSHA approved respirator with an organic vapor cartridge should be used under conditions where airborne concentrations are expected to exceed exposure limits (See Section 2). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

PROTECTIVE GLOVES:

Prevent prolonged or repeated contact by wearing gloves impervious to solvents and other appropriate protective clothing. Launder contaminated clothing before reuse.

EYE PROTECTION:

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI 287.1 or approved equivalent) are

SAFETY DATA SHEET

Date Revised: 2/18/14

appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidlines.

PHYSICAL STATE: Liquid ODOR: Hydrocarbon odor SPECIFIC GRAVITY (H2O=1): .87 BOILING RANGE: 133 F - 531 F

COATING V.O.C.: 484 g/l (4.04 lb/gl)

SOLUBILITY IN WATER: Insoluble/Negligible VAPOR DENSITY: Heavier than air. EVAPORATION RATE: Faster than nBuAc

STABILITY:

Stable under normal conditions and handling.

CONDITIONS TO AVOID:

All possible sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid exposure to strong oxidizing agents and reducing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Combustion may liberate toxic byproducts such as carbon dioxide, carbon monoxide, various oxides of carbon and nitrogen.

Will not occur.

SENSITIZATION: None known.

CARCINOGENICITY:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard. **REPRODUCTIVE TOXICITY:**

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There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

TERATOGENICITY (BIRTH DEFECTS):

Triethylenetetramine is fetotoxic and teratogenetic when fed to laboratory animals.

MUTAGENICITY:

Triethylenetetramine has been found to be a direct acting mutagen in the ames assay.

ENVIRONMENTAL DATA:

Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects. Nonylphenol is a marine pollutant. Trimethylbenzene is a marine pollutant under 49 CFR 172.101.

This product is considered a RCRA hazardous waste due to the characterisic(s) of D001 (ignitability). Waste is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers empty prior to discarding. Container rinsate could be considered a RCRA hazardous waste and must be discarded in compliance with all applicable regulations. Larger empty containers, such as drums, should be returned to a professional drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

SHIPPING NAME:

UN2924, Flammable Liquids, Corrosive, N.O.S., (Isopropanol, Phosphoric Acid), 3 (8), II

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Subatances Control Act (TSCA) chemical substance inventory.

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR

372). See section 2.

STATE SPECIFIC REQUIREMENTS:

This product contains a chemical(s) known to the state of California to cause cancer, birth defects or reproductive harm, which are subject to the requirements of California Proposition 65.

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE .
Triethylenetetramine	112-24-3	CA, FL, MA, PA, NJ
Ethyl Benzene	100-41-4	CA,NJ,PA
Trimethylbenzene	95-63-6	CA, MA, MN, NJ, PA

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REVISION DATE: 02/18/14			
HMIS CODES: H F	R	P	
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