Safety Data Sheet



Issue Date:	03-Jul-2014	Revision Date:	07-Jul-2014		v	ersion 1
		1. IDENT	IFICATION			
Product Ider Product Nan		PC ROT TERMINATOR,	HARDENER			
Other means SDS #	s of identification	140703-13				
UN/ID No		UN2735				
Recommend Recommend		al and restrictions on use Adhesives.	-			
Supplier Add Protective Co 221 S Third S	oatings Co.	<u>y data sheet</u>				
Company Pl	<u>Telephone Number</u> none Number Telephone (24 hr)	610-432-3543 / 800-220- INFOTRAC 1-352-323-3 1-800-535-5053 (North A	500 (International)			
		2. HAZARDS I	DENTIFICATION			
Appearance	Amber liquid	Physical S	State Liquid		Odor	Ammonia
<u>Classificatio</u>	<u>n</u>					
Skin sensitiza	damage/eye irritation	(HNOC)		Category 1 Category 1 Category 1	Sub-category C	
	ful if swallowed					
Signal Word	L					

Danger

<u>Hazard Statements</u> Causes severe skin burns and eye damage May cause an allergic skin reaction



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Immediately call a poison center or doctor/physician IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a poison center or doctor/physician IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards Toxic to aquatic life with long lasting effects Unknown Acute Toxicity 90-95% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
TOFA, reaction products with TEPA	68953-36-6	90-100
Tetraethylenepentamine	112-57-2	<5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment. After first aid, get appropriate in-plant, paramedic, or community medical support.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek medical attention.

Skin Contact	Wash with soap and water. Remove and wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.	
Inhalation	Remove to fresh air. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.	
Ingestion	Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water. Seek medical attention.	
Most important symptoms ar	nd effects	
Symptoms	May cause severe burns to skin, eyes and other body tissue. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. May cause nose, throat, and lung irritation. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. May cause delayed lung injury.	
Indication of any immediate	medical attention and special treatment needed	
Notes to Physician	Skin and eye conditions may be aggravated by long term exposure. Medical Conditions Aggravated by Long-Term Exposure: skin disorders, asthma, allergies and eye conditions.	
5. FIRE-FIGHTING MEASURES		

Suitable Extinguishing Media

Alcohol-resistant foam, Carbon dioxide (CO2), Dry chemical, Dry sand and Limestone powder.

Unsuitable Extinguishing Media Water.

Specific Hazards Arising from the Chemical

May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions. Do not allow run-off from fire fighting to enter drains or water courses. Incomplete combustion may form carbon monoxide. Downward personnel must be evacuated. Burning produces obnoxious and toxic fumes.

Hazardous Combustion Products CO, CO2, ammonia, and nitrogen compounds.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Wear butyl rubber boots, gloves, and bodysuit. Keep containers cool with water spray. Wear positive pressure self-contained breathing apparatus (SCBA). Do not release runoff from fire control methods to sewers or waterways. NFPA Class IIIB.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Avoid breathing vapors, mist or gas. Remove any contaminated clothing and wash thoroughly before reuse. Evacuate personnel to safe areas.
For Emergency Responders	Follow applicable OSHA regulations (29 CFR 1910.120).
Environmental Precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. For large spills, dike far ahead of liquid
	spill for later disposal.

Methods for Clean-Up	Soak up in adsorbent material such as sand and collect in suitable containers. Residual resin may be removed using steam or hot soapy water. Dispose of contents/container to an approved waste disposal plant. For waste disposal, see section 13 of the SDS.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not breathe vapors or spray mist.
Conditions for safe storage, includ	ling any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store contents under <90F (32C) . NFPA Class IIIB storage. Store locked up.
Incompatible Materials	CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitro sating agents. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.
8. EX	POSURE CONTROLS/PERSONAL PROTECTION
Exposure Guidelines	The following information is given as general guidance
Appropriate engineering controls	
Engineering Controls	Provide general or local exhaust ventilation if product is sanded or ground.
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	Chemical safety goggles/faceshield.
Skin and Body Protection	Wear protective gloves and protective clothing. Long sleeve shirts and trousers without cuffs.
	Butyl-rubber, Nitrile rubber, Neoprene gloves, Polyvinyl Alcohol Gloves (PVA), Impervious gloves, The breakthrough time of the selected glove(s) must be greater than the intended use period.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator.
General Hygiene Consideration	ns Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid Amber liquid Amber	Odor Odor Threshold	Ammonia Not determined
<u>Property</u> pH Melting Point/Freezing Point Boiling Point/Poiling Pongo	<u>Values</u> Not determined Not data > 200 °C / >390 °F	Remarks • Method	
Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits	195 °C / 383 °F Not determined Not determined Not available	CC (closed cup)	
Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	Not available <21 mm Hg Not data Not determined Not determined Not determined Not available Not determined Not determined Not determined Not determined Not determined Not determined	@ 25°C (77°F)	
Bulk Density	8.5 lbs/gallon @ 25°C		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Nitrous acid and other nitro sating agents. Organic acids (i.e. acetic acid, citric acid etc.). Mineral acids. Sodium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

Hazardous Decomposition Products

Nitric acid. Ammonia Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide. Carbon dioxide (CO2). Nitrosamine.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns. May cause an allergic skin reaction.
Inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetraethylenepentamine	= 2100 mg/kg (Rat)	= 660 mg/kg (Rabbit)	-
112-57-2			

Information on physical, chemical and toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause an allergic skin reaction.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Target organ effects	Respiratory System, Eyes, Skin.
Numerical measures of toxicity Product Information	
Unknown Acute Toxicity Oral LD50 Dermal LD50 Inhalation LC50	90-95% of the mixture consists of ingredient(s) of unknown toxicity. > 3,500 mg/kg (rat) 8,000 mg/kg (rat) No Data

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tetraethylenepentamine	2.1: 72 h Pseudokirchneriella	420: 96 h Poecilia reticulata	j	24.1: 48 h Daphnia magna
112-57-2	subcapitata mg/L EC50	mg/L LC50 static		mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Tetraethylenepentamine	1
112-57-2	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Contact your supplier or a licensed contractor for detailed recommendations. Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN2735 Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine) 8 III
IATA UN/ID No Proper Shipping Name Hazard Class Packing Group	UN2735 Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine) 8 III
IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group Marine Pollutant	UN2735 Amines, liquid, corrosive, n.o.s. (Tetraethylenepentamine) 8 III This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA Legend: Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tetraethylenepentamine	Х	Х	Х
112-57-2			

16. OTHER INFORMATION

<u>NFPA</u> <u>HMIS</u>	Health Hazards 3 Health Hazards 3	Flammability 1 Flammability 1	Instability 0 Physical Hazards 0	Special Hazards Not determined Personal Protection B- Safety Glasses, Gloves
Issue Date:	03-Jul-2014			

07-Jul-2014

New format

Disclaimer

Revision Date: Revision Note:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet