



# Material Safety Data Sheet

Issuing Date 25-Jul-2012

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Revision Number 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** TMPTA STABILIZER BLEND INTERMEDIATE

**Product Code(s)** ADD0047

**UN-Number** UN3145

**Recommended Use** Stabilizer

**Product Technology** Epoxy

### Manufacturer Address

Ennis-Flint  
5910 North Central Expressway  
Suite 1050  
Dallas TX 75206  
T: 800.331.8118  
800.331.8118 (For Technical Inquiries)

**Chemical Emergency Phone Number** Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

## 2. HAZARDS IDENTIFICATION

**DANGER!**

### Emergency Overview

Corrosive  
May cause central nervous system depression  
May produce an allergic reaction  
Contains a known or suspected reproductive toxin  
Harmful if swallowed

**Appearance** Light yellow

**Physical State** Liquid.

**Odor** Phenolic

### Potential Health Effects

**Principle Routes of Exposure** Inhalation. Skin contact. Eye contact.

### **Acute Toxicity**

#### **Eyes**

Corrosive to the eyes and may cause severe damage including blindness. Risk of serious damage to eyes.

#### **Skin**

Causes burns. May be harmful in contact with skin. May cause sensitization by skin contact.

#### **Inhalation**

Irritating to respiratory system. May be harmful if inhaled. High concentrations paralyze the central nervous system, causing loss of consciousness and respiratory paralysis.

#### **Ingestion**

Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tract. May cause additional affects as listed under "Inhalation".

<b>Chronic Effects</b>	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected reproductive toxin.
<b>Aggravated Medical Conditions</b>	Skin disorders. Respiratory disorders. Central nervous system. Pre-existing eye disorders. Nervous system disorders.
<b>Environmental Hazard</b>	See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
4-Nonylphenol, branched	84852-15-3	40-70
Triphenyl phosphite	101-02-0	10-30
4-Methoxyphenol	150-76-5	5-10

### 4. FIRST AID MEASURES

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
<b>Skin Contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician or Poison Control Center immediately.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Notes to Physician</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable.
<b>Flash Point</b>	> 294 °F / > 145.6 °C
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None
<b>Specific Hazards Arising from the Chemical</b>	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**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.

<b>NFPA</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Physical and Chemical Hazards -</b>
<b>HMIS</b>	<b>Health Hazard</b> 3*	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

\*Indicates a chronic health hazard.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not get in eyes, on skin, or on clothing.

**Environmental Precautions** Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.

**Methods for Containment** Dike far ahead of liquid spill for later disposal.

**Methods for Cleaning Up** Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

## 7. HANDLING AND STORAGE

**Handling** Wear personal protective equipment. Use only in area provided with appropriate exhaust ventilation. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Protect from moisture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4-Methoxyphenol 150-76-5	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. NIOSH IDLH: Immediately Dangerous to Life or Health.

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Personal Protective Equipment

**Eye/Face Protection** Tightly fitting safety goggles. Face-shield.

**Skin and Body Protection** Long sleeved clothing. Chemical resistant apron. Boots.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light yellow.	<b>Odor</b>	Phenolic.
<b>Odor Threshold</b>	Not applicable	<b>Physical State</b>	Liquid
<b>pH</b>	Not applicable		
<b>Flash Point</b>	> 294 °F / > 145.6 °C	<b>Autoignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not applicable	<b>Boiling Point/Boiling Range</b>	285 °C / 545 °F
<b>Melting Point/Range</b>	Not applicable	<b>Flammability Limits in Air</b>	Not applicable
<b>Solubility</b>	Not applicable	<b>Evaporation Rate</b>	Not applicable
<b>Vapor Pressure</b>	Not applicable	<b>Vapor Density</b>	Not applicable

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

**Incompatible Products** Bases. Strong oxidizing agents. Strong reducing agents. Acid chlorides. Acid anhydrides.

**Conditions to Avoid** Protect from moisture.

**Hazardous Decomposition Products** Carbon oxides. Phosphorous oxides.

**Hazardous Polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

No acute toxicity information is available for this product.

#### Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
4-Nonylphenol, branched	= 580 mg/kg ( Rat )	= 2031 mg/kg ( Rabbit )	
Triphenyl phosphite	= 444 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit ) = 1180 mg/kg ( Rat )	> 6.7 mg/L ( Rat ) 1 h
4-Methoxyphenol	1600 mg/kg ( Rat )		

### Chronic Toxicity

#### Chronic Toxicity

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Repeated contact may cause allergic reactions in very susceptible persons. Contains a known or suspected reproductive toxin.

#### Carcinogenicity

Contains no ingredient listed as a carcinogen.

#### Target Organ Effects

Central nervous system (CNS). Respiratory system.

## 12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
4-Nonylphenol, branched	EC50 72 h: 0.16 - 0.72 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 0.36 - 0.48 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: = 1.3 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 0.135 mg/L flow-through (Pimephales promelas) LC50 96 h: = 0.1351 mg/L flow-through (Lepomis macrochirus)		EC50 48 h: = 0.14 mg/L (Daphnia magna)
4-Methoxyphenol		LC50 96 h: = 28.5 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 84.3 mg/L flow-through (Pimephales promelas)	EC50 = 3.66 mg/L 5 min EC50 = 4.30 mg/L 15 min EC50 = 4.61 mg/L 30 min	
<b>Chemical Name</b>		<b>Log Pow</b>		
Triphenyl phosphite		4.98		
4-Methoxyphenol		1.34		

**13. DISPOSAL CONSIDERATIONS****Waste Disposal Methods**

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging**

Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

<b>14. TRANSPORT INFORMATION</b>
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**DOT**

<b>UN-Number</b>	UN3145
<b>Proper shipping name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a marine pollutant according to DOT.
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s., 8, II
<b>Emergency Response Guide Number</b>	153

**TDG**

<b>UN-Number</b>	UN3145
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s., 8, II

**MEX**

<b>UN-Number</b>	UN3145
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s. (4-Nonylphenol, branched, Non-hazardous ingredients), 8, II

**ICAO**

<b>UN-Number</b>	UN3145
<b>Proper shipping name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s., 8, II

**IATA**

<b>UN-Number</b>	UN3145
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>ERG Code</b>	8L
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s., 8, II

**IMDG/IMO**

<b>UN-Number</b>	UN3145
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>EmS No.</b>	F-A, S-B
<b>Marine Pollutant</b>	Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s., 8, II

<b>UN-Number</b>	UN3145
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Classification Code</b>	C3
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s. (4-Nonylphenol, branched, Non-hazardous ingredients), 8, II

**ADR**

<b>UN-Number</b>	UN3145
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Classification Code</b>	C3
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s. (4-Nonylphenol, branched, Non-hazardous ingredients), 8, II, (E)
<b>ADR/RID-Labels</b>	8
<b>Proper Shipping Name</b>	Alkylphenols, liquid, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Classification Code</b>	C3
<b>Special Provisions</b>	274
<b>Description</b>	UN3145, Alkylphenols, liquid, n.o.s. (4-Nonylphenol, branched, Non-hazardous ingredients), 8, II
<b>Limited Quantity</b>	1 L

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL</b>	Complies

**Legend**

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

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.



**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
4-Methoxyphenol	X	X	X		X

**International Regulations****Mexico - Grade**

Slight risk, Grade 1

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

E Corrosive material

D2B Toxic materials

**Canadian National Pollutant Release Inventory (NPRI)**

Component	NPRI
4-Nonylphenol, branched 84852-15-3 ( 40-70 )	X

**Legend**

X - Listed

**16. OTHER INFORMATION****Prepared By**

Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date**

25-Jul-2012

**Revision Date**

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**Revision Note**

Initial Release

**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication and it does not purport to be all inclusive and shall be used only as a guide. We urge each customer or recipient of this MSDS to study it carefully to become aware of and understand the potential hazards associated with the product. The information given is designed only as a guide 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 material or in any process, unless specified in the text. Any use of the product not in conformance with this MSDS or in combination with any other product or process is the responsibility of the user. Customary precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Remove all soiled and contaminated clothing immediately.

**End of Safety Data Sheet**