1.6



Version:

<u>Date of Issue:</u> 16.05.2008

Date printed: 24.01.2009

**WESTON® TNPP** 

Chemtura Corporation urges the recipient of this Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet,(2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the substance WESTON® TNPP or preparation:

**Chemical name:** Tri(nonylphenyl)phosphite **Synonyms:** FDA Liquid Phosphite

Use of substance/preparation: Polymer stabilizer

**Company identification:** Galata Chemicals GmbH

Chemiestraße 22 Lampertheim 68623

Germany

Manufacturer: Galata Chemicals GmbH

Chemiestraße 22 Lampertheim 68623

Germany

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**Environmental**, Health and

**Safety Department:** 

**Prepared by** Product Safety Department

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#### 2. HAZARDS IDENTIFICATION

#### Main hazards and effects:

Irritating to skin. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	% BY WEIGHT	HAZARD	DANGER SYMBOL(S)
Phenol, nonyl-, phosphite (3:1) CAS# 26523-78-4	> 95	R38 R43	Xi N

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**EINECS/ELINCS#** 247-759-6 R50/53

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Nonylphenol <5 R22 C N
CAS# 84852-15-3 R34
EINECS/ELINCS# 284-325-5 R50/53
R62
R63

#### 4. FIRST AID MEASURES

#### <u>Swallowing</u>

Obtain medical attention immediately.

#### Inhalation

Remove to fresh air. Obtain medical attention immediately.

#### Skin contact

Immediately wash with soap and water for at least 15 minutes. Immediately remove contaminated clothing and shoes. If redness or irritation occurs, seek medical attention.

#### Eye contact

Remove contact lenses, if worn. Immediately flush with large quantities of water on site for 20 to 30 minutes. The eyelids should be held open and away from the eyeball to ensure that all surfaces are flushed thoroughly. Call a physician. Continue water flush up to one hour during transport to a medical facility. Obtain medical attention if irritation persists.

### 5. FIRE-FIGHTING MEASURES

Flash point: 207 °C

### **Hazardous combustion products**

Carbon dioxide.

Carbon monoxide.

Oxides of phosphorous.

Phosphine.

### Special fire fighting procedures

Water spray may be used to cool containers and adjacent surfaces.

Run-off water may be highly acidic and should be collected and neutralized if possible.

#### Special protective equipment for firefighters

Firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Full protective clothing

### Extinguishing media

Suitable: - CO2

- dry chemical

- foam

#### Unusual fire and explosion hazards

Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, hydrocarbon fragments, phosphine, fragments of phosphite/phosphate esters and oxides of phosphorus.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear protective clothing when taking up spill., Avoid contact with eyes and skin.

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#### **Environmental precautions**

Avoid drainage to sewers or natural waters., Since phosphites can hydrolyze, notification of governing agencies may be appropriate due to the possible release of phenolic materials.

#### Methods for cleaning up

Avoid contact with liquid and vapors.

Dike area of spill to prevent spreading and pump liquid to salvage tank.

Absorb residue with inert absorbent, and transfer to proper containers. Remaining material may be emulsified with soap and water and absorbed on additional sorbent. Do not flush to sewer. Since phosphites can hydrolyze, notification of RCRA may be appropriate due to the possible release of phenolic materials. Do not flush this product to sewers or waterways.

#### 7. HANDLING AND STORAGE

### **HANDLING**

#### **Handling precautions**

Avoid contact with skin and clothing., Avoid prolonged or repeated contact with skin., Wash thoroughly with soap and water after handling., Do not eat, drink or smoke when handling., Keep containers tightly closed to prevent contamination., Electrically bond and ground all containers and equipment before transfer or use of material., Normal precautions common to good safety practice should be followed in handling.

#### Other precautions

Caution - If water contamination has occurred, or if you have any reason to suspect water contamination, do not heat containers of product. Do not heat opened containers with steam in a manner which will allow steam to condense into the container.

### **STORAGE**

#### Storage requirements

Keep away from heat, sparks and flame., Store in a dry place away from excessive heat., Keep container tightly closed., Exposure to moisture or high humidity can cause hydrolysis producing phosphorus acid and nonylphenol., Normal precautions common to safe manufacturing practice should be followed in handling and storage.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE LIMIT VALUES

#### PERSONAL PROTECTION

#### Respiratory protection

None required in normal use., NIOSH approved full face organic respiratory protection required in the absence of proper environmental control. For emergencies, a self-contained breathing apparatus and full chemical resistant suit.

#### Hand protection / protective gloves

Chemical resistant protective gloves

#### Eye protection

Safety glasses with side shields., Safety goggles.

#### Skin protection

Wear protective clothing.

#### **Industrial hygiene measures**

Do not eat or drink at work., Remove contaminated clothing and clean it.

### **ENGINEERING CONTROLS**

#### Ventilation

Use local ventilation or engineering controls as needed to maintain personnel exposure below the exposure limits.

#### **Further information**

Provide for sufficient ventilation and/or exhaust.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** 

Physical state Liquid

**Color** Colorless to light yellow

Odor Slight phenolic

Odor threshold No data available.

**OTHER PROPERTIES** 

Boiling point Not available

Melting point Not available

**Solidification** Not available

pH Not available

Specific gravity (H2O=1) Not available

**Density** 0,98 g/cm3 at 25 °C

Solubility in water Insoluble, Hydrolyzes slowly

Solubility in organic solvents No data available.

Partitioning coefficient No data available.

Flash point

207 °C

Method: Pensky Martens closed cup

Autoignition temperature 439 °C

Upper explosion limits Not available

Lower explosion limits Not available

Percent volatiles Not available

### 10. STABILITY AND REACTIVITY

**Stability:** Stable.

<u>Stability</u> - Conditions to avoid: Moisture.

Moisture Water.

**Incompatible materials:** 

Water.

<u>Hazardous reactions</u>: Will react in the presence of water. Reaction rate will increase with increasing temperatures and pressures. Hydrolyzed by moisture to phosphorus acid and nonylphenol.

### **Hazardous combustion products:**

Carbon dioxide. Carbon monoxide. Oxides of phosphorous.

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Phosphine.

### 11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results
Acute toxicity:

LD50 Rat

Result: > 2.000 mg/kg

SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rabbit

Result: > 2.000 mg/kg

SKIN CONTACT

Test results

Skin irritation: Species: rabbit:

Result: Irritant

EYE CONTACT

Test results

Eye irritation: Species: rabbit:

Result: Not irritating

SENSITIZATION

<u>Test results:</u> Species: - Guinea pig:

Result: sensitizing

MUTAGENICITY

Assessment: This material was not mutagenic in an Ames bacterial assay.

### 12. ECOLOGICAL INFORMATION

Biodegradation: Remark: Not readily biodegradable.

Component ecotoxicology Phenol, nonyl-, phosphite (3:1) Acute toxicity fish:	LC50 - Zebra fish (Brachydanio rerio) Result: 7,1 mg/l Exposure time: 96 h
--	--

Component ecotoxicology	Acute algae toxicity IC50 -
Phenol, nonyl-, phosphite (3:1)	Result: > 100 mg/l
Aquatic toxicity to plants:	

Component ecotoxicology Phenol, nonyl-, phosphite (3:1) Microorganisms:	Bacterial toxicity EC/LC50 - Result: > 100 mg/l
Component ecotoxicology Phenol, nonyl-, phosphite (3:1) Acute toxicity to aquatic invertebrates:	EC50 - Water flea (Daphnia magna): Result: 0,42 mg/l Exposure time: 48 h

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### 13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Incinerate in a furnace where permitted

under appropriate Federal, State, and local regulations.

### 14. TRANSPORT INFORMATION

ADR/RID

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Class 9M6
UN No. 3082
Packing group III
Hazard No. 90
Label 9

**Technical description** (TRIS(NONYLPHENYL) PHOSPHITE)

**IMDG Classification** 

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s.

Class:

Subsidiary risk: marine pollutant UN ID #: UN 3082

Packing group:

Technical description (TRIS(NONYLPHENYL) PHOSPHITE)

**ICAO/IATA Classification** 

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s.

Class:

UN ID #: UN 3082
Packing group: III

**Technical description** (TRIS(NONYLPHENYL) PHOSPHITE)

Only regulated by air Into, Out of or Within the United States in containers 881.8 lbs (400 kg) or greater.

#### 15. REGULATORY INFORMATION

EC classification

 $Danger\ symbol(s) \\ \hspace{2cm} : \hspace{2cm} Xi \hspace{2cm} N$ 

Risk phrases : R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Safety phrases : S24 Avoid contact with skin.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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Contains : Phenol, nonyl-, phosphite (3:1)

WGK : 2, Hazard to water; VwVwS, Annex 3

2035

#### **CHEMICAL INVENTORY**

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this product are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.

**China:** This product is on the IECSC Inventory.

<u>Japan:</u> The ingredients of this product are on the ENCS inventory.

**Korea:** The ingredients of this product are on the ECL.

Philippines: This product, or the components, is listed or exempt from listing on the Philippines Inventory of Chemicals

and Chemical Substances (PICCS).

### 16. OTHER INFORMATION

List of R-phrases used in data sheet. See section 15 for classification details.

Risk phrases : R22 Harmful if swallowed.

R34 Causes burns. R38 Irritating to skin.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R62 Possible risk of impaired fertility. R63 Possible risk of harm to the unborn child.

#### FURTHER INFORMATION

Where appropriate, use CEN approved personal protection equipment.

This Safety Data Sheet conforms to EC Directive 2001/58 and amendments.

### Carechem24 International Worldwide Coverage - Chemtura Corporation

Emergency Telephone Numbers

Europe:	All European Countries	+44 (0)208 762 8322
Asia Pacific:	Australia, New Zealand	+44 (0)870 190 6777
	China, Hong Kong, Singapore, Philippines, Taiwan, Vietnam, India	+65 63 222 513
	Japan, North & South Korea	+65 63 222 514
	Indonesia	+62 21 230 5992
	Malaysia	+60 3 205 35 754
	Thailand	+66 2 642 7851
Middle East:	Arabic speaking countries	+961 3 487 287
	All other countries	+44 (0)208 762 8322
Africa:	Arabic speaking countries	+961 3 487 287
	All other countries	+44 (0)208 762 8322
Latin America:	All	+44 (0)208 762 8322
China:	All	+86 10 5100 3039

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STP	Standard temperature and pressure
W/W	Weight/Weight

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