



MATERIAL SAFETY DATA SHEET

WESTON® TPP

Version: 1.4
Date of Issue: 08/22/2006
Date printed: 08/22/2006

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : WESTON® TPP

Chemical name: Triphenyl phosphite

Use of substance/preparation: No specific information

Supplier: Chemtura USA Corporation
Chemtura Corporation (Worldwide HQ)
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Environmental, Health and Safety Department: 866-430-2775

Customer Service: 877-948-2660

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>
Triphenyl phosphite CAS# 101-02-0	> 99
Phenol CAS# 108-95-2	< 1

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.
MAY CAUSE SENSITIZATION BY SKIN CONTACT.
CAN BURN IN A FIRE CREATING DENSE TOXIC SMOKE.
EXPOSURE TO MOISTURE OR HIGH HUMIDITY CAN CAUSE HYDROLYSIS PRODUCING PHOSPHORUS ACID AND PHENOL.
EXCESSIVE OVEREXPOSURE MAY CAUSE THE FOLLOWING EFFECTS:
MAY CAUSE NERVOUS SYSTEM DAMAGE.



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4. FIRST AID MEASURES

Swallowing

Do not induce vomiting. Obtain medical attention immediately.

Inhalation

Remove to fresh air. Obtain medical attention if symptoms develop.

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

Immediately flush eyes with water and continue washing for at least 15 minutes. Remove contact lenses, if worn. Obtain medical attention if irritation develops.

5. FIRE-FIGHTING MEASURES

Flash point: 295 °F 146 °C

Flammable limits

Lower limit: Not available

Upper limit: Not available

Autoignition temperature:

No data available.

NFPA CLASSIFICATION

Health: 2	Flammability: 1	Reactivity: 1	Special provisions:
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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.

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.



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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 eyes, skin and clothing. 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.

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. Exposure to moisture or high humidity can cause hydrolysis producing phosphorus acid and phenol. Keep container tightly closed. Normal precautions common to safe manufacturing practice should be followed in handling and storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Triphenyl phosphite			0.1 mg/m3	Chemtura Corporation recommended exposure limit.
Phenol	USA	TWA, ACGIH	5ppm	
	Australia	TWA	4 mg/m3 1 ppm	

No other exposure limits have been established

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

Gauntlet type gloves of nitrile rubber or butyl rubber recommended; for short time contact PVC is suitable.

Eye protection

Safety glasses with side shields. Safety goggles.

Skin protection

Chemical resistant 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
Odor	Slight phenolic
Odor threshold	No data available.

OTHER PROPERTIES

Boiling point	> 250 °C
Melting point	22 - 25 °C 72 - 77 °F
Solidification	Not available
pH	Not available
Specific gravity (H ₂ O=1)	Not available
Density	1.182 g/cm ³ at 25 °C
Vapor pressure	7 hPa at 205 °C
Solubility in water	Insoluble, Hydrolyzes slowly
Solubility in organic solvents	Soluble
Partitioning coefficient	No data available.
Flash point	295 °F 146 °C
Thermal decomposition	>= 220 °C
Autoignition temperature	No data available.
Upper explosion limits	Not available
Lower explosion limits	Not available
Percent volatiles	Not available

10. STABILITY AND REACTIVITY

Stability: Stable.



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Stability - Conditions to avoid:

Moisture.
Water.

Incompatible materials:

Water.
Strong oxidizing agents.

Hazardous reactions: Will react in the presence of water. Reaction rate will increase with increasing temperatures and pressures.
Hydrolyzed by moisture to phosphorus acid and alcohol(s).

Hazardous combustion products:

Carbon dioxide.
Carbon monoxide.
Oxides of phosphorous.
Phosphine.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: LD50 Rat
Result: 1,600 mg/kg

INHALATION

Test results

Acute toxicity: LC50 - Rat
Result: > 2 mg/l

SKIN CONTACT

Test results

Skin irritation: Species: rabbit:
Result: Irritant

EYE CONTACT

Test results

Eye irritation: Species: rabbit:
Result: Irritant

SENSITIZATION

Test results:

Species: - Guinea pigs
Classification: not sensitizing
Remark: This material was a weak skin sensitizer in human patch tests.

MUTAGENICITY

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

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH

In animal testing neurotoxic effects were observed on oral and dermal administration at high doses.

12. ECOLOGICAL INFORMATION

Acute toxicity to aquatic invertebrates: - EC50 - Water flea (Daphnia magna)
Result: 0.94 mg/l
Exposure time: 48 h



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Additional information
No results from ecotoxicological tests are available.

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

DOT Classification

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triphenyl phosphite)
Class: 9
UN ID #: UN3082
Packing group: III
marine pollutant: MARINE POLLUTANT

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

Technical description Triphenyl phosphite

IMDG Classification

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Subsidiary risk: marine pollutant
UN ID #: UN 3082
Packing group: III
Technical description (Triphenyl phosphite)

ICAO Classification

This product is not regulated by ICAO.

Proper shipping name:

Technical description (Triphenyl phosphite)

15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQ's) and release reporting based on Reportable Quantities (RQ's) in 40CFR355 (used for SARA 302 and 304).

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Phenol	108-95-2	< 1.00

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Phenol	108-95-2	< 1.00

Massachusetts Right-To-Know Substance List (MSL)--Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
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Phenol 108-95-2 <= 1.00

Pennsylvania Right-To-Know Hazardous Substance List--Hazardous Substances and Special Hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Phenol	108-95-2	<= 1.00

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Triphenyl phosphite	101-02-0	
Phenol	108-95-2	

California Proposition 65

**** NONE ****

CHEMICAL INVENTORY

<u>Canada:</u>	The ingredients of this product are on the DSL.
<u>Europe:</u>	The ingredients of this product are on the EINECS inventory.
<u>United States:</u>	The ingredients of this product are on the TSCA inventory.
<u>Australia:</u>	The ingredients of this product are on the AICS inventory.
<u>China:</u>	This product is on the IECSC Inventory.
<u>Japan:</u>	The ingredients of this product are on the ENCS inventory.
<u>Korea:</u>	The ingredients of this product are on the ECL.
<u>Philippines:</u>	This product is on the PICCS.

16. OTHER INFORMATION

FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

HMIS RATING

Health: 2	Flammability: 1	Reactivity: 0	PPI:
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STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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