## **ULTRANOX® 817**



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### **SECTION 1. IDENTIFICATION**

Recommended use of the chemical and restrictions on use

Recommended use : Antioxidant

Mixture

Restrictions on use : For professional and industrial installation and use only.

Manufacturer or supplier's details

Company: Supplier

SI Group USA (USAA), LLC 4 Mountainview Terrace

Suite 200 Danbury, CT

United States of America (USA)

06810

**Emergency telephone** 

Emergency telephone: +1 703-741-5970(CHEMTREC/US)

+44 (0) 1235 239 670(NCEC/EU) 0 512 8090 3042(NRCC/CHINA)

For additional emergency telephone numbers see section 16 of the

Safety Data Sheet.

#### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200

Long-term (chronic) aquatic

hazard

: Category 1

**GHS** label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H410 Very toxic to aquatic life with long lasting effects.

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Precautionary Statements : Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Antioxidant

# **Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-	26741-53-7	>= 50 - < 70
tetraoxa-3,9-diphosphaspiro[5.5]undecane		

The exact percentage concentrations of components are being withheld as a trade secret in accordance with paragraph (i) of §1910.120

#### **SECTION 4. FIRST AID MEASURES**

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air in case of accidental inhalation of dust or

fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

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Most important symptoms and effects, both acute and

delayed

Product dust may be irritating to eyes, skin and respiratory

system.

No information available.

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during fire

fighting

Avoid generating dust; fine dust dispersed in air in sufficient

concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

No information available.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air).

Non-sparking tools should be used.

Avoid dust formation.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not

accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer

and mixing operations.

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Avoid dust formation. Provide appropriate exhaust ventilation

at places where dust is formed.

Advice on safe handling : For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### Hazardous components without workplace control parameters

Components	CAS-No.
3,9-bis(2,4-di-tert-	26741-53-7
butylphenoxy)-2,4,8,10-	
tetraoxa-3,9-	
diphosphaspiro[5.5]undecane	

### **Exposure controls**

**Engineering measures** : It is recommended that all dust control equipment such as

local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen

deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves Before

removing gloves clean them with soap and water.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Dust impervious protective suit

Choose body protection according to the amount and

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concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before breaks and at the end of workday.

Environmental exposure controls

Water : Do not let product enter drains.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : solid, granular

Color : white

Odor : slight

Odor Threshold : No data available

pH : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 200 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

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Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Surface tension : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

Stable under recommended storage conditions.

No decomposition if used as directed.

Conditions to avoid : No data available

Incompatible materials : No data available

No data available

Hazardous decomposition

products

No hazardous decomposition products are known.

### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Remarks: Not classified due to lack of data.

Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Acute toxicity estimate:3,871 mg/kg

Method: Calculation method

### **Components:**

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## $3,9-bis (2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro \cite{bitylphenoxy}-2,4,8,10-tetraoxa-3,9-diphosphaspiro \cite{bitylphenoxy}-2,4,8,10-tetraoxa-2,4,8,10-tetraoxa-2,4,8,10-tetraoxa-2,4,8,10-tetraoxa-2,4,8,10-tetraoxa-2,4,8,10-tetraoxa-2,4,8,10-tetraoxa-2,$

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit):> 2,000 mg/kg

GLP: yes

#### Skin corrosion/irritation

#### **Product:**

Remarks: The product is not considered as being a skin irritant.

### Serious eye damage/eye irritation

#### **Product:**

Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

#### Respiratory or skin sensitization

#### **Product:**

Remarks: No data available

#### **Components:**

### 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

Species: Guinea pig

Assessment: Did not cause sensitization on laboratory animals.

Method: OECD Test Guideline 406

Result: negative GLP: yes

## Germ cell mutagenicity

## **Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### **Components:**

### 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Result: negative GLP: yes

 Test Type: In Vitro mammalian Cell Gene Mutation Test Metabolic activation: with and without metabolic activation

Result: negative

GLP: yes

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Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative GLP: yes

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects.

### Carcinogenicity

**Product:** 

Remarks: This information is not available.

### Reproductive toxicity

**Product:** 

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

### **Components:**

3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

Reproductive toxicity - : No toxicity to reproduction
Assessment : No effects on or via lactation

## STOT-single exposure

**Product:** 

Remarks: No data available

### STOT-repeated exposure

**Product:** 

Remarks: No data available

### **Components:**

#### 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

Routes of exposure:Oral

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

**Product:** 

Remarks: No data available

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## **Aspiration toxicity**

### **Product:**

Not classified due to data which are conclusive although insufficient for classification.

#### **Further information**

**Product:** 

Remarks: No data available

### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

**Product:** 

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: No data is available on the product itself.

Toxicity to algae : Remarks: No data is available on the product itself.

Toxicity to microorganisms : Remarks: No data is available on the product itself.

## **Components:**

### 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

## **Bioaccumulative potential**

**Product:** 

Bioaccumulation : Remarks: No data available

#### **Components:**

### 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane:

Partition coefficient: n- : log Pow: ca. 11.8

octanol/water GLP: yes

### Mobility in soil

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No data available

Other adverse effects

**Product:** 

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82

Protection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was

manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A +

B).

Additional ecological

information

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Offer surplus and non-recyclable solutions to a licensed

disposal company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

## **International Regulations**

IATA-DGR

UN/ID No. : UN 3077

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

956

(3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-

diphosphaspiro[5.5]undecane)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction : 956

(passenger aircraft)

**IMDG-Code** 

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

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N.O.S., Environmentally hazardous substance, solid, n.o.s.

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(3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-

diphosphaspiro[5.5]undecane)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A,S-F
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

**Domestic regulation** 

**49 CFR** 

UN/ID/NA number : UN 3077

Proper shipping name : Environmentally hazardous substances, solid, n.o.s.

(3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-

diphosphaspiro[5.5]undecane)

Class : 9 Packing group : III

Labels : CLASS 9 ERG Code : 171 Marine pollutant : no

Special precautions for user

Remarks : Not regulated by DOT and TDG if shipped or transported in

packaging less than 400KG by road and/or rail.

#### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

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#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### **US State Regulations**

## **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

## Pennsylvania Right To Know

3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane

pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4- 6683-19-8

hydroxyphenyl)propionate)

### **New Jersey Right To Know**

3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9- 26741-53-7

diphosphaspiro[5.5]undecane

pentaerythritol tetrakis(3-(3,5-di-tert-butyl-4- 6683-19-8

hydroxyphenyl)propionate)

California Prop 65 : This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other

reproductive defects.

## The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : On TSCA Inventory

#### **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response. Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population: LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified: NFPA - National Fire Protection Association: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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**Further information** 

NFPA: HMIS® IV:

Flammability

1 0 ∰ 0

HMIS® ratings are based on a 0-4 rating special hazard. scale, with 0 representing minimal

hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic

hazard.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

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<\*\* Phrase language not available: [ Z8 ] CUST - 10000000012264 \*\*>

US / Z8

### Carechem24 International Worldwide Coverage

## **Emergency Phone Numbers:**

Europe:	All European Countries	+44 (0) 1235 239 670	
Asia Pacific:	East / South East Asia	Regional Number : +65 3158 1074	
	Australia	+61 2801 44558	
	New Zealand	+64 9929 1483	
	China Taiwan	+86 10 5100 3039	
	Japan	+81 345 789 341	
	Indonesia	00780 3011 0293	
	:Malaysia	+60 3 6207 4347	
	Thailand	001800 1 2066 6751	
	Korea	+65 3158 1285	
	Vietnam	+65 3158 1255	
	India	+65 3158 1198	
	Pakistan	+65 3158 1329	
	Philippines	+65 31581203	
	Sri Lanka	+65 3158 1195	
	Bangladesh	+65 3158 1200	

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Middle East / Africa:	Arabic speaking countries	+44 (0) 1235 239 671
	All other countries	+44 (0) 1235 239 670
<u>America</u>	United States / Canada	001866 928 0789
Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
	Mexico	+52 555 004 8763