



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product code : 400000003475
Chemical nature : Polymer stabilizer

Details of the supplier of the safety data sheet

Company: Addivant USA, LLC
4 Mountainview Terrace
Suite 200
Danbury, CT
United States of America
06810
Telephone : 1-800-962-8641 (US) only

Prepared by msdsrequest@addivant.com

Further information for the safety data sheet :
msdsrequest@addivant.com

Emergency telephone number

Emergency telephone number: 866-928-0789
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Disposal considerations : msdsrequest@addivant.com

Recommended use of the chemical and restrictions on use

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

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Solid form, powder
Colour	white



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Odour	slight
Hazard Summary	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. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

OSHA Regulatory status : This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Potential Health Effects

Skin : As with any dust, mechanical irritation is possible.

Eyes : Dust contact with the eyes can lead to mechanical irritation.

Aggravated Medical Condition : None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

IARC

No se identifica ningún componente de este producto, que presente niveles mayores que o igual a 0,1% como agente carcinógeno humano probable, posible o confirmado por la (IARC) Agencia Internacional de Investigaciones sobre Carcinógenos.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : Polymer stabilizer

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane	26741-53-7	≥ 30 - < 50
Benzene, C10-16-alkyl derivs.	68648-87-3	≥ 0.1 - < 1
heptane	142-82-5	≥ 0.1 - < 1
2,4-di-tert-butylphenol	96-76-4	≥ 0.1 - < 1

SECTION 4. FIRST AID MEASURES

If inhaled : Remove to fresh air.
 In case of irritation of respiratory system or mucous membranes or if feeling unwell or after prolonged exposure get medical attention.
 Wear respiratory protection.

Remove to fresh air.
 In case of irritation of respiratory system or mucous membranes or if feeling unwell or after prolonged exposure get medical attention.
 Wear respiratory protection.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 Do not rinse with organic solvents in any case!

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
 Do not rinse with organic solvents in any case!

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
 In case of eye irritation seek medical attention.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
 In case of eye irritation seek medical attention.



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

- If swallowed : Do NOT induce vomiting.
Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.
- Do NOT induce vomiting.
Do NOT induce vomiting.
Rinse mouth with water.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : No information available.
No information available.
- Notes to physician : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water mist
Foam
Carbon dioxide (CO₂)
Dry powder
BC powder
- Water mist
Foam
Carbon dioxide (CO₂)
Dry powder
BC powder
- Unsuitable extinguishing media : High volume water jet
Caution
Water reactive
- High volume water jet
Caution
Water reactive
- Specific extinguishing methods :
- Further information : Do not release chemically contaminated water into drains, soil or surface water.
- Do not release chemically contaminated water into drains, soil or surface water.
- Special protective equipment for firefighters : Wear a positive-pressure supplied-air respirator with full facepiece.



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Wear a positive-pressure supplied-air respirator with full facepiece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures :
- Do not breathe dust.
 - Do not breathe dust.
 - Remove all sources of ignition.
 - Avoid contact with skin and eyes.
- :
- Do not breathe dust.
 - Do not breathe dust.
 - Remove all sources of ignition.
 - Avoid contact with skin and eyes.
- Environmental precautions :
- Disposal: see section 13
 - Disposal: see section 13
 - Prevent leaks and prevent soil / water pollution caused by leaks.
 - Prevent leaks and prevent soil / water pollution caused by leaks.
- Methods and materials for containment and cleaning up :
- Shovel up and transfer to suitable, closable containers.
 - Avoid dust formation.
 - Shovel up and transfer to suitable, closable containers.
 - Avoid dust formation.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling :
- Use only with adequate ventilation.
 - Use only with adequate ventilation.
- Conditions for safe storage :
- Keep container tightly closed.
 - Keep in a well-ventilated place.
 - Keep container tightly closed.
 - Keep in a well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Hygiene measures : Avoid dust formation.
Keep away from sources of ignition - No smoking.
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.
Take precautionary measures against static discharges.
Avoid dust formation.
Keep away from sources of ignition - No smoking.
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.
Take precautionary measures against static discharges.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid form, powder
Colour : white
Odour : slight
Flash point : Not available Not Available Not available
Not available Not Available Not available
Density : 1.1 g/cm³ (25 °C)

SECTION 10. STABILITY AND REACTIVITY

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 : > 5,000 mg/kg
LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : Remarks: No data available
Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Components:

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

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

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

Benzene, C10-16-alkyl derivs.:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
GLP: no

Acute inhalation toxicity : LC50 (Rat): > 1.82 mg/l
Exposure time: 4 h
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
GLP: no

2,4-di-tert-butylphenol:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

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

Skin corrosion/irritation

Components:

Benzene, C10-16-alkyl derivs.:

Species: Rabbit
Method: Draize Test
Result: Skin irritation

2,4-di-tert-butylphenol:

Species: Rabbit
Result: Skin irritation

Serious eye damage/eye irritation

Components:

Benzene, C10-16-alkyl derivs.:

Species: Rabbit
Result: No eye irritation
Method: Draize Test
GLP: no

2,4-di-tert-butylphenol:



Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Species: Rabbit
Result: Eye irritation

Respiratory or skin sensitisation

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 sensitisation on laboratory animals.
Method: OECD Test Guideline 406
Result: negative
GLP: yes

Benzene, C10-16-alkyl derivs.:

Test Type: Maximisation Test (GPMT)
Species: Guinea pig
Assessment: Did not cause sensitisation on laboratory animals.
Method: OECD Test Guideline 406
GLP: no

Species: Human
Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

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

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: Mouse
Result: negative
GLP: yes

Germ cell mutagenicity-Assessment : Animal testing did not show any mutagenic effects.

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Benzene, C10-16-alkyl derivs.:

Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Result: negative
 GLP: yes

Genotoxicity in vivo : Test Type: in vivo assay
 Test species: Rat
 Cell type: Bone marrow
 Result: negative
 GLP: yes

Germ cell mutagenicity-Assessment : Animal testing did not show any mutagenic effects.

2,4-di-tert-butylphenol:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Test Type: in vivo assay
 Cell type: Bone marrow
 Result: negative

Germ cell mutagenicity-Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Reproductive toxicity

Components:

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

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

Benzene, C10-16-alkyl derivs.:

Effects on foetal development : Species: Rat
 Application Route: Oral
 125 mg/kg
 125 mg/kg
 GLP: yes

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

2,4-di-tert-butylphenol:



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

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

Components:

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

Exposure routes: Oral

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

Benzene, C10-16-alkyl derivs.:

Exposure routes: Inhalation

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

2,4-di-tert-butylphenol:

Exposure routes: Oral

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

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

M-Factor (Chronic aquatic toxicity) : 1

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects., Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2,4-di-tert-butylphenol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 1.8 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.1 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 0.12 mg/l
Exposure time: 96 h
GLP: no

Persistence and degradability

Components:

Benzene, C10-16-alkyl derivs.:

Biodegradability : aerobic
Inoculum: activated sludge



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Result: Readily biodegradable
Biodegradation: 69 - 98 %
Exposure time: 35 d

2,4-di-tert-butylphenol:

Biodegradability : aerobic
Inoculum: activated sludge
Result: According to the results of tests of biodegradability this product is not readily biodegradable.
Biodegradation: 2 %
Exposure time: 28 d
GLP: no
Remarks: Not readily biodegradable.

Bioaccumulative potential

Components:

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

Partition coefficient: n-octanol/water : log Pow: ca. 11.8
GLP: yes

Benzene, C10-16-alkyl derivs.:

Bioaccumulation : Bioconcentration factor (BCF): 35 - 444

Partition coefficient: n-octanol/water : log Pow: 5.72 - 5.75 (27 °C)

heptane:

Partition coefficient: n-octanol/water : log Pow: 4.7

2,4-di-tert-butylphenol:

Partition coefficient: n-octanol/water : log Pow: 5.33
GLP: no

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3077
Description of the goods : 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 : 9
Emergency Response : 171
Guidebook Number :
Environmentally hazardous : yes
3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane

IATA

UN number : 3077
Description of the goods : Environmentally hazardous substance, 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 : 9
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Packing instruction (passenger aircraft) : Y956
Marine pollutant : yes
3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane

IMDG

UN number : 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F

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

Not regulated by DOT and TDG if shipped or transported in packaging less than 400KG by road and/or rail.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Combustible dust

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory
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
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

Inventories

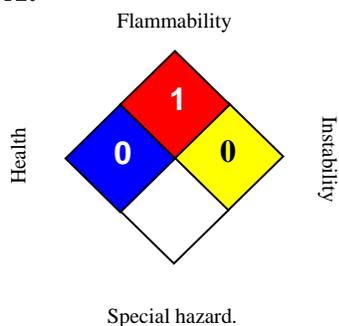
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

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.

Carechem24 International Worldwide Coverage - Addivant

Emergency Phone Numbers:

<u>Europe:</u>	All European Countries	+44 (0) 1235 239 670
<u>Asia Pacific:</u>	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



ULTRANOX® 815

Version	111
Revision Date	06/21/2016
Print Date	10/23/2017
Country	US
Language:	EN

<u>Middle East / Africa:</u>	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
<u>Latin America:</u>	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
	Mexico	+52 555 004 8763