

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

### SECTION 1. IDENTIFICATION

Product name : ADDITIN M 93.001

Product code : 000000000057516645

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS  
(412) 809-1000  
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or  
(703) 527-3887 (Outside U.S.A) and mention CCN12916.  
Lanxess Emergency Phone (800) 410-3063.

#### Recommended use of the chemical and restrictions on use

Recommended use : Lubricants and lubricant additives

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Eye irritation : Category 2A

Skin sensitization : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 1 (lymph node)  
- repeated exposure

Specific target organ toxicity : Category 2 (Liver)  
- repeated exposure

#### GHS label elements

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Hazard pictograms

:



Signal Word

:

Danger

Hazard Statements

:

May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of damaging the unborn child.  
Causes damage to organs (lymph node) through prolonged or repeated exposure.  
May cause damage to organs (Liver) through prolonged or repeated exposure.

Precautionary Statements

:

**Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe mist or vapors.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice/ attention.  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Wash contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Additional Labeling**

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 58.4 %

**Other hazards**

None known.

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
2,6-di-tert-butyl-p-cresol	128-37-0	>= 1 - < 5
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7	>= 1 - < 5
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	>= 1 - < 5
Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol	56748-97-1	>= 1 - < 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 1 - < 5
(tetrapropenyl)succinic acid	27859-58-1	>= 1 - < 5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### SECTION 4. FIRST AID MEASURES

If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	: Wash off with soap and plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before re-use.
In case of eye contact	: Get medical attention. In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed	: Rinse mouth with water. Do not induce vomiting unless directed to do by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur.

#### Most important symptoms and effects, both acute and delayed

Symptoms : Eye: Causes irritation with symptoms of reddening, tearing,

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

stinging, and swelling.  
May cause sensitization by skin contact.  
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.  
Adverse symptoms sometimes include the following:  
Effects on fertility.  
Effects on fetal development.

Effects : May cause an allergic skin reaction.  
Causes serious eye irritation.  
Suspected of damaging the unborn child.  
Causes damage to organs through prolonged or repeated exposure.

Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat symptomatically.

---

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : In case of fire, use water spray (fog), foam or dry chemical.

Unsuitable extinguishing media : None known.

Specific hazards during fire fighting : In a fire or if heated, a pressure increase will occur and the container may burst.  
Cool closed containers exposed to fire with water spray.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
phosphorus oxide (P<sub>2</sub>O<sub>5</sub>)

Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

---

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.  
Evacuate personnel to safe areas.  
Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilled material.  
Do not breathe vapors or spray mist.  
Provide adequate ventilation.  
Put on appropriate personal protection equipment.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.  
Move containers from spill area.  
Keep people away from and upwind of spill/leak.  
Wash spillages into an effluent treatment plant or proceed as follows.  
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).  
Dispose of wastes in an approved waste disposal facility.  
Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

---

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.  
Use only with adequate ventilation.  
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.  
Empty containers retain product residue; observe all precautions for product.  
Do not re-use empty containers.  
Remove contaminated clothing and protective equipment before entering eating areas.

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Workers should wash hands and face before eating, drinking and smoking.  
Put on appropriate personal protection equipment.  
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.  
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.  
Avoid exposure during pregnancy.

Conditions for safe storage : Store in accordance with local regulations.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Keep containers sealed until ready for use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Use appropriate container to avoid environmental contamination.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.

Further information on storage stability : Stable under recommended storage conditions.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2,6-di-tert-butyl-p-cresol	128-37-0	TWA (Inhalable fraction and vapor)	2 mg/m3	ACGIH
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

**Engineering measures** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

working limits of the selected respirator.  
NIOSH approved, air-purifying organic vapor respirator.

### Hand protection

Material : Polyvinyl chloride - PVC  
Wearing time : < 60 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Safety glasses with side-shields

Skin and body protection : Complete suit protecting against chemicals  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.  
Appropriate techniques should be used to remove potentially contaminated clothing.  
Wash contaminated clothing before reusing.  
Ensure that eyewash stations and safety showers are close to the workstation location.

---

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : viscous liquid

Physical state : liquid

Color : brown

Odor : oily

Odor Threshold : Not relevant

pH : substance/mixture is non-soluble (in water)

Melting point/ range : 5 °F / -15 °C

Boiling point/boiling range : No data available

Flash point : 352 °F / 178 °C

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Method: closed cup

Evaporation rate	:	No data available
Flammability (liquids)	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	0.998 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	280 mm <sup>2</sup> /s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Surface tension	:	No data available
Molecular weight	:	No data available



# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Metal corrosion rate : Not corrosive to metals.

Particle size : Not applicable

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Strong oxidizing agents  
Acids and bases

Hazardous decomposition products : No hazardous decomposition products are known.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Eye contact  
Skin contact  
Ingestion  
Inhalation

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,930 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Dosage caused no mortality

---

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality

### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Acute oral toxicity : LD50 (Rat, male and female): 3,313 mg/kg  
Method: OECD Test Guideline 401  
GLP: No  
Remarks: Test results on an analogous substance/product.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Acute oral toxicity : LD50 (Rat): > 300 mg/kg

Acute dermal toxicity : LD50: 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Distillates (petroleum), hydrotreated light naphthenic:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Dosage caused no mortality

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Test results on an analogous substance/product.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: No information available.  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality  
Test results on an analogous substance/product.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality  
Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Acute oral toxicity : LD50 (Rat, male): 2,700 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes

LD50 (Rat, female): 2,100 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes

### **Skin corrosion/irritation**

Not classified due to lack of data.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation

#### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Species : Rabbit  
Method : Draize Test  
Result : Irritating to skin.  
GLP : No  
Remarks : Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Species	:	Rabbit
Method	:	equivalent or similar to OECD Guideline 404
Result	:	Irritating to skin.
GLP	:	No

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Species	:	reconstructed human epidermis (RhE)
Assessment	:	Irritating to skin.
Method	:	Regulation (EC) No. 440/2008, Annex, B.46
Result	:	Skin irritation

### **Distillates (petroleum), hydrotreated light naphthenic:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	Yes
Remarks	:	Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Irritating to skin.
GLP	:	Yes

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

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

#### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	No
Remarks	:	Test results on an analogous substance/product.

#### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Species	:	Rabbit
Result	:	Irritating to eyes.

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Method : equivalent or similar to OECD Guideline 405  
GLP : No

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Species : Bovine cornea  
Result : Irreversible effects on the eye  
Assessment : Causes severe burns.  
Method : Regulation (EC) No. 440/2008, Annex, B.47

### **Distillates (petroleum), hydrotreated light naphthenic:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Exposure time : 21 d  
Method : Draize Test  
GLP : No information available.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified due to lack of data.

### **Components:**

#### **2,6-di-tert-butyl-p-cresol:**

Test Type : Patch Test  
Routes of exposure : Skin contact  
Species : Human  
Result : Does not cause skin sensitization.

Test Type : No data available  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : No information available.  
Result : Did not cause sensitization on laboratory animals.  
GLP : No

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

### 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: The product is a skin sensitiser, sub-category 1B.
GLP	: Yes
Remarks	: Test results on an analogous substance/product.

### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: equivalent or similar to OECD Guideline 406
Result	: Did not cause sensitization on laboratory animals.
GLP	: No

### Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:

Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitization on laboratory animals.

### Distillates (petroleum), hydrotreated light naphthenic:

Test Type	: Buehler Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitization on laboratory animals.
GLP	: Yes

### (tetrapropenyl)succinic acid:

Test Type	: Buehler Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitization on laboratory animals.
GLP	: Yes

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### 2,6-di-tert-butyl-p-cresol:

Genotoxicity in vitro	: Test Type: Ames test
	Test system: Salmonella typhimurium

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: No information available.  
Result: negative  
GLP: No information available.

Test Type: HPRT test  
Test system: rat hepatocytes  
Metabolic activation: with metabolic activation  
Method: No information available.  
Result: negative  
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal injection  
Method: No information available.  
Result: negative  
GLP: No information available.

Test Type: Cytogenetic assay  
Species: Rat (male)  
Cell type: Bone marrow  
Application Route: Oral  
Method: No information available.  
Result: negative  
GLP: No information available.

### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No  
Remarks: Test results on an analogous substance/product.

Test Type: Ames test  
Test system: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

GLP: No

Remarks: Test results on an analogous substance/product.

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: Yes

Remarks: Test results on an analogous substance/product.

Test Type: Micronucleus test

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

GLP: Yes

Remarks: Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Genotoxicity in vitro

: Test Type: Ames test

Test system: Salmonella typhimurium, Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: Yes

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: Yes

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: Yes

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Genotoxicity in vitro

: Test Type: Microbial mutagenesis assay (Ames test)

Test system: TA1535

Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Result: negative



# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

### **Distillates (petroleum), hydrotreated light naphthenic:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: TA98  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: equivocal  
GLP: No information available.  
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: No  
Remarks: Information given is based on data obtained from similar substances.

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: equivocal  
GLP: Yes  
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 490  
Result: negative  
GLP: Yes

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Result: negative  
GLP: Yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No

### Carcinogenicity

Not classified due to lack of data.

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 22 month(s)
Dose	: 0 - 25 - 100 - 250/500 mg/kg body weight
NOAEL	: 25 mg/kg bw/day
Method	: No information available.
Result	: equivocal
GLP	: Yes

Carcinogenicity - Assessment : Carcinogenicity classification not possible from current data.

##### **Distillates (petroleum), hydrotreated light naphthenic:**

Carcinogenicity - Assessment : Classified based on DMSO extract content < 3% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

**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.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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

### Reproductive toxicity

Suspected of damaging the unborn child.

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Effects on fertility : Test Type: Two-generation study

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 25 - 100 - 250/500  
Fertility: NOAEL: 500 mg/kg body weight  
Result: Animal testing did not show any effects on fertility.  
GLP: Yes

Effects on fetal development : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 25 - 100 - 250/500 milligram per kilogram  
General Toxicity Maternal: NOAEL: 100 mg/kg body weight  
Developmental Toxicity: NOAEL: 100 mg/kg body weight  
Method: No information available.  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
GLP: Yes

Test Type: Pre-natal  
Species: Mouse, female  
Application Route: Oral  
Dose: 70 - 240 - 800 milligram per kilogram  
General Toxicity Maternal: NOAEL: 240 mg/kg body weight  
Developmental Toxicity: NOAEL: 800 mg/kg body weight  
Method: No information available.  
Result: Did not show teratogenic effects in animal experiments.  
GLP: No information available.

### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 15 - 45 - 150 mg/kg bw/day  
General Toxicity Parent: NOAEL: 45 mg/kg bw/day  
Fertility: NOAEL: 150 mg/kg bw/day  
Early Embryonic Development: NOAEL: 45 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: Animal testing did not show any effects on fertility.  
GLP: Yes  
Remarks: Test results on an analogous substance/product.

Effects on fetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 0 - 15 - 45 - 150 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 45 mg/kg bw/day  
Teratogenicity: NOAEL: 150 mg/kg bw/day  
Developmental Toxicity: NOAEL: 150 mg/kg bw/day

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Embryo-fetal toxicity.: NOAEL: 150 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: Did not show teratogenic effects in animal experiments.  
GLP: Yes  
Remarks: Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Effects on fertility : Test Type: Screening test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 10 - 30 - 100 mg/kg bw/day  
General Toxicity Parent: LOAEL: 10 mg/kg bw/day  
Fertility: NOAEL: 100 mg/kg bw/day  
Early Embryonic Development: NOAEL: 100 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
General Toxicity Parent: NOAEL: 300 mg/kg body weight

Effects on fetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight

### **Distillates (petroleum), hydrotreated light naphthenic:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 1000 milligram per kilogram  
General Toxicity Parent: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Fertility: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Early Embryonic Development: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes  
Remarks: Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Effects on fertility : Test Type: Screening test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 16 - 40 - 100 mg/kg bw/day  
General Toxicity Parent: NOAEL: > 100 mg/kg body weight  
Early Embryonic Development: NOAEL: > 100 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Dose: 0 - 40 - 100 - 250 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 100 mg/kg bw/day  
Developmental Toxicity: NOAEL: 100 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 100 mg/kg bw/day  
Method: OECD Test Guideline 414  
GLP: Yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### STOT-single exposure

Not classified due to lack of data.

#### Components:

#### **2,6-di-tert-butyl-p-cresol:**

Assessment : May cause respiratory irritation.

#### **Distillates (petroleum), hydrotreated light naphthenic:**

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Causes damage to organs (lymph node) through prolonged or repeated exposure.  
May cause damage to organs (Liver) through prolonged or repeated exposure.

#### Components:

#### **Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates:**

Target Organs : lymph node  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

### (tetrapropenyl)succinic acid:

Target Organs : Liver  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### Repeated dose toxicity

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Species : Rat, male and female  
NOAEL : 25 mg/kg  
LOAEL : 100 mg/kg  
Application Route : Oral  
Exposure time : 22 Months  
Number of exposures : daily  
Dose : 0 - 25 - 100 - 250/500 mg/kg bw/day  
Method : No information available.  
GLP : Yes  
Symptoms : alteration in liver enzymes  
Remarks : Chronic toxicity

Species : Pig, male and female  
: 1500 ppm  
Application Route : Oral  
Exposure time : 42 Days  
Number of exposures : daily  
Dose : 0 - 150 - 1000 - 1500 parts per million  
Method : No information available.  
GLP : Yes  
Remarks : Subacute toxicity

##### **1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:**

Species : Rat, male and female  
NOAEL : 150 mg/kg  
Application Route : Oral  
Exposure time : 90 Days  
Number of exposures : daily  
Dose : 0 - 15 - 45 - 150 mg/kg bw/day  
Method : OECD Test Guideline 408  
GLP : Yes  
Remarks : Subchronic toxicity  
Test results on an analogous substance/product.

Species : Rat, male and female  
NOAEL : 45 mg/kg  
LOAEL : 150 mg/kg  
Application Route : Oral

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Number of exposures : daily  
Dose : 0 - 15 - 45 - 150 mg/kg bw/day  
Method : OECD Test Guideline 422  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Species : Rat, male and female  
NOAEL : 4 mg/kg  
LOAEL : 20 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 0 - 1- 4 - 20 mg/kg bw/day  
Method : OECD Test Guideline 408  
GLP : Yes  
Remarks : Subchronic toxicity

Species : Rat, male and female  
LOAEL : 10 mg/kg  
Application Route : Oral  
Number of exposures : daily  
Dose : 0 - 10 - 30 - 100 mg/kg bw/day  
Method : OECD Test Guideline 422  
GLP : Yes

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Species : Rat  
NOAEL : 300 mg/kg  
Application Route : Oral

### **Distillates (petroleum), hydrotreated light naphthenic:**

Species : Rat, male  
LOAEL : 125 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 125 - 500 mg/kg bw/d  
Method : OECD Test Guideline 408  
GLP : No information available.  
Remarks : Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Exposure time	:	28 d
Number of exposures	:	daily
Dose	:	16 - 40 - 100 mg/kg bw/day
Method	:	OECD Test Guideline 407
GLP	:	Yes
Remarks	:	Subacute toxicity
Species	:	Rat, male and female
NOAEL	:	50 mg/kg
LOAEL	:	100 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Number of exposures	:	daily
Dose	:	0 - 50 - 100 - 200 mg/kg bw/day
Method	:	OECD Test Guideline 408
GLP	:	Yes
Remarks	:	Subchronic toxicity

### Aspiration toxicity

Not classified due to lack of data.

### Components:

#### Distillates (petroleum), hydrotreated light naphthenic:

May be fatal if swallowed and enters airways.

### Further information

#### Product:

Remarks : No data available

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### 2,6-di-tert-butyl-p-cresol:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 0.57 mg/l
		Exposure time: 96 h
		Test Type: semi-static test
		Method: Regulation (EC) No. 440/2008, Annex, C.1
		GLP: Yes
		Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.48 mg/l
		End point: Immobilization



# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: Yes  
Remarks: Fresh water

EC10 (Desmodesmus subspicatus (green algae)): 0.4 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: Regulation (EC) No. 440/2008, Annex, C.3  
GLP: Yes  
Remarks: Fresh water

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): 0.053 mg/l  
Exposure time: 42 d  
Test Type: flow-through test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 210  
GLP: Yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.023 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes  
Remarks: Fresh water

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

nominal concentration

Toxicity to soil dwelling organisms : Test Type: Reproduction Test  
NOEC (*Eisenia fetida* (earthworms)): 25 mg/kg  
Exposure time: 28 d  
End point: Reproduction  
Method: OECD Test Guideline 222  
GLP: Yes

Plant toxicity : NOEC: 4.74 mg/kg  
Exposure time: 17 d  
End point: Growth inhibition  
Species: *Allium cepa*  
Method: OECD Test Guideline 208  
GLP: Yes

EC50: 20.9 mg/kg  
Exposure time: 17 d  
End point: Growth inhibition  
Species: *Allium cepa*  
Method: OECD Test Guideline 208  
GLP: Yes

### 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): 1.3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 203  
GLP: No  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 2.05 mg/l  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

Toxicity to algae/aquatic plants : ErC50 (*Desmodesmus subspicatus* (green algae)): 0.976 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

EC10 (Desmodesmus subspicatus (green algae)): 0.658 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.35 mg/l  
aquatic invertebrates (Chronic toxicity)  
End point: Reproduction  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: No  
Method: OECD Test Guideline 211  
GLP: Yes  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

EC10 (Daphnia magna (Water flea)): 0.435 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: No  
Method: OECD Test Guideline 211  
GLP: Yes  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

Toxicity to microorganisms : EC20 (activated sludge): 15 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: No  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

EC50 (activated sludge): 69 mg/l

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

End point: Respiration inhibition  
Exposure time: 3 h  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: No  
Remarks: Fresh water  
nominal concentration  
Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 203  
GLP: No  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 202  
GLP: No  
Remarks: Fresh water  
nominal concentration

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

EC10 (Raphidocelis subcapitata (freshwater green alga)): 4.9 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

nominal concentration

NOEC (Raphidocelis subcapitata (freshwater green alga)): 3.2 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: Yes

Method: OECD Test Guideline 201

GLP: Yes

Remarks: Fresh water

nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 10 mg/l

End point: Reproduction

Exposure time: 22 d

Test Type: semi-static test

Analytical monitoring: Yes

Method: OECD Test Guideline 211

GLP: Yes

Remarks: Fresh water

nominal concentration

Toxicity to microorganisms : EC20 (activated sludge): > 100 mg/l

End point: Respiration inhibition

Exposure time: 3 h

Test Type: static test

Analytical monitoring: No

Method: OECD Test Guideline 209

GLP: No

Remarks: Fresh water

nominal concentration

EC50 (activated sludge): > 100 mg/l

End point: Respiration inhibition

Exposure time: 3 h

Test Type: static test

Analytical monitoring: No

Method: OECD Test Guideline 209

GLP: No

Remarks: Fresh water

nominal concentration

### Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 26.3 mg/l

Exposure time: 96 h

Test Type: static test

Method: OECD Test Guideline 203

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

NOEC (Oncorhynchus mykiss (rainbow trout)): 17.3 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Lowest Observed Effect Concentration (Oncorhynchus mykiss (rainbow trout)): 39.6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 84.91 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 203

NOEC (Daphnia magna (Water flea)): 50 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 203

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 59.6 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 59.6 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (adapted and activated sludge micro-organism): 1,000 mg/l  
Exposure time: 3 h  
Test Type: Cell multiplication inhibition test  
Method: OECD Test Guideline 209

### **Distillates (petroleum), hydrotreated light naphthenic:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Analytical monitoring: Yes  
Method: OECD Test Guideline 203  
GLP: Yes  
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: water extractable fraction

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 201  
GLP: No information available.  
Remarks: water extractable fraction  
Test results on an analogous substance/product.

NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 201  
GLP: No information available.  
Remarks: water extractable fraction  
Test results on an analogous substance/product.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 10 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Analytical monitoring: No information available.  
Method: OECD Test Guideline 211  
GLP: Yes  
Remarks: water extractable fraction

### (tetrapropenyl)succinic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 203  
GLP: Yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water

Toxicity to algae/aquatic plants : EL50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
water extractable fraction

NOELR (Raphidocelis subcapitata (freshwater green alga)):  
33 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
water extractable fraction

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

### Persistence and degradability

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 4.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C  
GLP: No information available.

Stability in water : Degradation half life (DT50): 4 - 8 d  
Hydrolysis: at 20 °C

Photodegradation : Sensitizer: OH  
Degradation (indirect photolysis):  
Degradation half life: 21.054 h



# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
CO<sub>2</sub>  
Result: Not readily biodegradable.  
Biodegradation: 12 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: No

Stability in water : Hydrolysis: < 10 %  
Method: OECD Test Guideline 111  
GLP: No  
Remarks: Hydrolyzes slowly on contact with water.

Hydrolysis: < 10 %  
Method: OECD Test Guideline 111  
GLP: No  
Remarks: Hydrolyzes slowly on contact with water.

### Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:

Biodegradability : Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: Yes

### Distillates (petroleum), hydrotreated light naphthenic:

Biodegradability : Result: Not readily biodegradable.

### (tetrapropenyl)succinic acid:

Biodegradability : aerobic  
Inoculum: activated sludge, adapted  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 18.3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: Yes

### Bioaccumulative potential

#### Components:

#### 2,6-di-tert-butyl-p-cresol:

Bioaccumulation : Bioconcentration factor (BCF): > 2,000

Species: Cyprinus carpio (Carp)

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Bioconcentration factor (BCF): 781  
Exposure time: 56 d  
Temperature: 77 °F / 25 °C  
Concentration: 0.05 mg/l  
Method: OECD Test Guideline 305  
GLP: No information available.

Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 839  
Exposure time: 56 d  
Temperature: 77 °F / 25 °C  
Concentration: 0.005 mg/l  
Method: OECD Test Guideline 305  
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: 5.1  
Method: measured

### Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

Partition coefficient: n-octanol/water : Remarks: No specific, relevant data available for assessment.

### Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:

Partition coefficient: n-octanol/water : log Pow: 1.84 (77 °F / 25 °C)  
Method: OECD Test Guideline 117  
GLP: Yes

### (tetrapropenyl)succinic acid:

Partition coefficient: n-octanol/water : log Pow: 4.76  
Method: OECD Test Guideline 107  
GLP: Yes

### Mobility in soil

#### Components:

#### 2,6-di-tert-butyl-p-cresol:

Mobility : Medium: Soil  
Content: 82.9 %  
Method: Calculation, Mackay Level III Fugacity Model

Medium: Water  
Content: 8.53 %  
Method: Calculation, Mackay Level III Fugacity Model

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

Medium: Sediment  
Content: 7.23 %  
Method: Calculation, Mackay Level III Fugacity Model

Medium: Air  
Content: 1.33 %  
Method: Calculation, Mackay Level III Fugacity Model

Distribution among environmental compartments : log Koc: 4.17  
Method: estimated

Stability in soil : Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 5.7  
Cation exchange capacity: 16 m\_/kg  
Biomass: 214 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 6.6  
Cation exchange capacity: 47 m\_/kg  
Biomass: 265.7 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 7.4  
Cation exchange capacity: 265 m\_/kg  
Biomass: 531.8 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

Test Type: aerobic degradation  
Soil temperature: 54 °F / 12 °C  
Radio label: Yes  
pH: 7.2  
Cation exchange capacity: 257 m\_/kg  
Biomass: 938.7 mg/kg  
Method: OECD Test Guideline 307  
GLP: Yes

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

#### Components:

##### **2,6-di-tert-butyl-p-cresol:**

Results of PBT and vPvB assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues : The generation of waste should be avoided or minimized wherever possible.  
This material and its container must be disposed of in a safe way.  
Empty containers retain product residue; observe all precautions for product.  
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.  
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### **IATA-DGR**

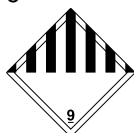
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (2,6-DI-TERT-BUTYL-P-CRESOL, DI- ALKYLAMINOMETHYL-TOLYLTRIAZOLE)
Class	:	9
Packing group	:	III

# SAFETY DATA SHEET

## ADDITIN M 93.001

Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Labels : 9



Packing instruction (cargo aircraft) : 964 : 450.00 L  
Packing instruction (passenger aircraft) : 964 : 450.00 L  
Environmentally hazardous : yes



### IMDG-Code

UN number : UN 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(2,6-DI-TERT-BUTYL-P-CRESOL, DI-ALKYLAMINOMETHYL-TOLYLTRIAZOLE)

Class : 9  
Packing group : III  
Labels : 9



EmS Code : F-A, S-F  
Marine pollutant : yes



### 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 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(2,6-DI-TERT-BUTYL-P-CRESOL, DI-ALKYLAMINOMETHYL-TOLYLTRIAZOLE)

Class : 9  
Packing group : III

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

Labels : 9  
:  
:  


ERG Code : 171  
Marine pollutant : yes



### Hazard and Handling Notes.

Environmentally hazardous substance.

Irritating to the eyes.

Keep separated from foodstuffs

The U.S. DOT regulations in 49 CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet.

Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Reproductive toxicity  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**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.

### US State Regulations

### Massachusetts Right To Know

# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

2,6-di-tert-butyl-p-cresol	128-37-0	1 - 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	1 - 5

### Pennsylvania Right To Know

Proprietary non-hazardous ingredient	Trade Secret	> 1
N-[(1,1,3,3-tetramethylbutyl)phenyl]naphthalen-1-amine	51772-35-1	> 1
2,6-di-tert-butyl-p-cresol	128-37-0	1 - 5
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7	1 - 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	1 - 5

### California Prop. 65

WARNING: This product can expose you to chemicals including methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Any chemical(s) listed above which do not appear elsewhere on this SDS are contained in this product at concentrations below 0.01%.

### TSCA inventory

TSCA : All substances listed as active on the 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.

## SECTION 16. OTHER INFORMATION

### Further information

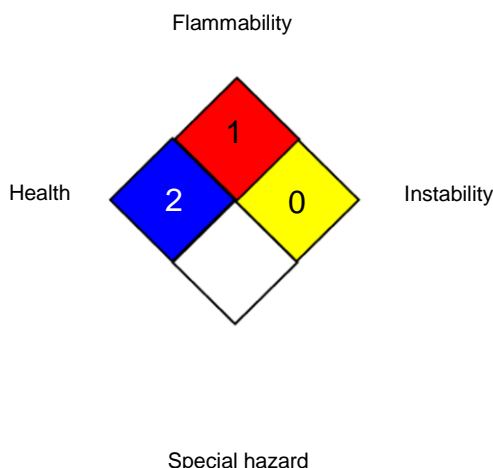
# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

### NFPA 704:



### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating 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.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; 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



# SAFETY DATA SHEET

## ADDITIN M 93.001



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000007542	Country / Language: US / EN

---

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; TECI - Thailand Existing Chemicals 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

Revision Date : 01/03/2025

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. 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 to be a guidance for processing and does not contain any 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. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

Relevant changes from the previous version are marked on the left side of the Safety Data Sheet with a black double bar in appropriate places.