# **ADDITIN M 97.003**



Version **Revision Date:** SDS Number: Date of last issue: 04/21/2022 08/16/2022 203000007420 Country / Language: US / EN 2.0

### **SECTION 1. IDENTIFICATION**

Product name : ADDITIN M 97.003

Product code 000000000057471656

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

(800) LANXESS Responsible Department

(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 : Additive for lubricants

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

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

Skin irritation Category 2

Serious eye damage Category 1

Skin sensitization Category 1

Reproductive toxicity Category 1B

**GHS** label elements

Hazard pictograms







Signal Word Danger

Causes skin irritation. Hazard Statements

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May cause an allergic skin reaction.

Causes serious eye damage.

May damage fertility.

Precautionary Statements

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Avoid breathing mist or vapors.

Wash skin thoroughly after handling.

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. Immediately call a POISON CENTER/ doctor. IF exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

#### Storage:

Store locked up.

### Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

#### Other hazards

None known.

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

Substance / Mixture : Mixture

## Components

Chemical name	CAS-No.	Concentration (% w/w)
Proprietary fatty acid compound	Trade secret	>= 50 - < 70
Phosphonic acid, dibutyl ester	1809-19-4	>= 5 - < 10
Amines, C11-14-branched alkyl,	80939-62-4	>= 5 - < 10
monohexyl and dihexyl phosphates		
Aliphatic dibasic acid, glycol ester	P-88-2640	>= 1 - < 5
6,6'-di-tert-butyl-2,2'-methylenedi-p-	119-47-1	>= 1 - < 5
cresol		

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Proprietary phosphorus compound	Trade Secret	>= 1 - < 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 1 - < 5
1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-ar-methyl-	94270-86-7	>= 1 - < 5
Proprietary Ingredient	Trade Secret	>= 1 - < 5
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	>= 1 - < 5

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

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

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Get medical attention if symptoms occur.

If not breathing, give artificial respiration.

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 physi-

cian.

Wash contaminated clothing before re-use.

In case of eye contact : Get medical attention immediately.

In case of contact, immediately flush eyes with plenty of water

for at least 30 minutes.

Keep eye wide open while rinsing.

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 so by a physi-

cian or poison control center.

Get medical attention if symptoms occur.

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

Symptoms : Eye: Corrosive with symptoms of reddening, tearing, swell-

ing, burning and possible permanent damage.

Skin: Causes irritation with symptoms of reddening, itching,

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 effects from repeated exposure may include

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Effects on fertility.

Effects : Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

May damage fertility.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

### **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 prod-

ucts

Carbon dioxide (CO2)

Carbon monoxide Sulfur oxides

Oxides of phosphorus Nitrogen oxides (NOx) 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.

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

Personal precautions, protective equipment and emer-

gency 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.

Put on appropriate personal protection equipment.

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Environmental precautions : Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

Local authorities should be advised if significant spillages

cannot be contained.

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. Contaminated absorbent material may pose the same hazard

as the spilled product.

Do not allow spilled material or wash water to enter sewers,

surface waters, or groundwater systems.

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

Advice on safe handling : Avoid exposure during pregnancy.

Avoid inhalation, ingestion and contact with skin and eyes. Persons with a history of skin sensitization to this product should not be employed in any process in which this product

is used.

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 precau-

tions for product.

Do not re-use empty containers.

Remove contaminated clothing and protective equipment be-

fore entering eating areas.

Put on appropriate personal protection equipment.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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 contamina-

tion.

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Empty containers retain residue and can be dangerous.

Do not reuse container.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

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

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Distillates (petroleum), hy-	64742-53-6	TWA (Inhal-	5 mg/m3	ACGIH
drotreated light naphthenic		able particu-		
		late matter)		

**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

working limits of the selected respirator.

Hand protection

Material : PVC Wearing time : < 60 min

Remarks : Gloves should be discarded and replaced if there is any indi-

cation of degradation or chemical breakthrough. The suitability for a specific workplace should be discussed with the pro-

ducers of the protective gloves.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear work clothing including long pants and long-sleeve

shirts.

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

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to the workstation location.

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

Physical state : liquid

Color : brown

Odor : characteristic

Odor Threshold : No data available

pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 280 °F / 138 °C

Method: closed cup

Evaporation rate : 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 density : No data available

Density : 0.979 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : slightly soluble

Solubility in other solvents : No data available

Partition coefficient: n- : No data available

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octanol/water

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic No data available

405.4 mm2/s (104 °F / 40 °C) Viscosity, kinematic

Explosive properties No data available

Oxidizing properties No data available

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 The product is chemically stable.

tions

Possibility of hazardous reac- : Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials Oxidizing agents

Hazardous decomposition

products

No decomposition if stored and applied as directed.

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

The most important known symptoms and effects are described in Section 2 and/or Section 4.

### Information on likely routes of exposure

Inhalation Ingestion

Eye contact

Skin contact

### **Acute toxicity**

Not classified based on available information.

**Product:** 

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

Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: 78.57 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

**Components:** 

Phosphonic acid, dibutyl ester:

Acute oral toxicity : LD50 (Rat): 3,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 22 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 5,000 mg/kg

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

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

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

GLP: yes

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Aliphatic dibasic acid, glycol ester:

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

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol:

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

GLP: no

Acute dermal toxicity : LD50 (Rat): > 10,000 mg/kg

GLP: no

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 tox-

icity

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Remarks: Dosage caused no mortality Test results on an analogous 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 inhala-

tion toxicity

Remarks: Dosage caused no mortality Test results on an analogous 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 product

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

Acute oral toxicity : LD50 (Rat): 3,313 mg/kg

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

**Proprietary Ingredient:** 

Acute oral toxicity : LD50 (Rat, female): 2,100 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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

Method: OECD Test Guideline 401

GLP: no

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: no

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Dosage caused no mortality

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#### Skin corrosion/irritation

Causes skin irritation.

#### Components:

### Proprietary fatty acid compound:

Result : Causes mild skin and eye irritation

# Phosphonic acid, dibutyl ester:

Species : Rabbit

Result : Irritating to skin.

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

Species : Rabbit

Method : OECD Test Guideline 404

Result : Irritating to skin.

# Aliphatic dibasic acid, glycol ester:

Species : reconstructed human epidermis (RhE)

Assessment : Irritating to skin.

Method : Regulation (EC) No. 440/2008, Annex, B.46

Result : Skin irritation

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

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

#### Proprietary phosphorus compound:

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 product

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

Species : Rabbit Exposure time : 24 h

Result : Irritating to skin.

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**Proprietary Ingredient:** 

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Irritating to skin.

GLP : yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Mild skin irritation

GLP : no

Serious eye damage/eye irritation

Causes serious eye damage.

**Product:** 

Result : Irreversible effects on the eye

**Components:** 

Proprietary fatty acid compound:

Species : Rabbit

Result : Severe eye irritation Assessment : Irritating to eyes.

Phosphonic acid, dibutyl ester:

Species : Rabbit

Result : Irritating to eyes.

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

Species : Rabbit

Result : Irritating to eyes.

Method : OECD Test Guideline 405

Aliphatic dibasic acid, glycol ester:

Species : Bovine cornea

Result : Irreversible effects on the eye

Assessment : Causes severe burns.

Method : Regulation (EC) No. 440/2008, Annex, B.47

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol:

Species : Rabbit

Result : No eye irritation

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Method : OECD Test Guideline 405

GLP : yes

## Distillates (petroleum), hydrotreated light naphthenic:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

GLP : ves

Remarks : Test results on an analogous product

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

Species : Rabbit

Result : No eye irritation

### **Proprietary Ingredient:**

Species : Rabbit

Result : Risk of serious damage to eyes.

Exposure time : 21 d

GLP : No information available.

## Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

GLP : no

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

### Respiratory sensitization

Not classified based on available information.

#### Components:

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

Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitization on laboratory animals.

### Aliphatic dibasic acid, glycol ester:

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitization on laboratory animals.

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

Routes of exposure : Skin contact Species : Mouse

Method : OECD Test Guideline 429

Result : Did not cause sensitization on laboratory animals.

GLP : yes

#### 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

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

Routes of exposure : Dermal Species : Guinea pig

Result : May cause sensitization by skin contact.

# **Proprietary Ingredient:**

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 : ves

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Test Type : Maximization Test Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406 Result : Not a skin sensitizer.

GLP : yes

#### Germ cell mutagenicity

Not classified based on available information.

#### Components:

#### Phosphonic acid, dibutyl ester:

Genotoxicity in vitro : Test system: Bacteria

Method: OECD Test Guideline 471

Result: negative

Test system: mouse lymphoma cells

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Result: negative

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

Genotoxicity in vitro : Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

# Aliphatic dibasic acid, glycol ester:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)

Test system: TA1535

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay)
Result: negative

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

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: yes

Test Type: Ames test

Test system: 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

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Test system: Chinese hamster fibroblasts

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative GLP: yes

# Distillates (petroleum), hydrotreated light naphthenic:

Test Type: Ames test Genotoxicity in vitro

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 product

**Proprietary Ingredient:** 

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

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Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

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

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Genotoxicity in vitro

: Test Type: Micronucleus test

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

GLP: ves

Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Test Type: Ames test

Test system: Escherichia coli

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Mouse (male) Application Route: Oral

Method: OECD Test Guideline 478

Result: negative

GLP: no

Remarks: Test results on an analogous product

# Carcinogenicity

Not classified based on available information.

### Components:

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

Species : Rat, male Application Route : Oral

Exposure time : 18 month(s)

NOAEL : 12.7 mg/kg bw/day

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

Carcinogenicity - Assess- : Classified based on DMSO extract content < 3% (Regulation

ment (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

May damage fertility.

## Components:

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

Effects on fertility : Species: Rat, male and female

**Application Route: Oral** 

Early Embryonic Development: NOAEL: 10 mg/kg body

weight

Symptoms: No effects on early embryonic development.

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Method: OECD Test Guideline 422

Aliphatic dibasic acid, glycol ester:

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

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol:

Effects on fertility : Species: Rat, male

Application Route: Oral

General Toxicity Parent: NOAEL: 12.5 mg/kg body weight General Toxicity F1: NOAEL: 12.5 mg/kg body weight

Symptoms: Testicular damage in animals.

Method: OECD Test Guideline 421

GLP: yes

Species: Rat, female Application Route: Oral

General Toxicity F1: NOAEL: 50 mg/kg body weight

Method: OECD Test Guideline 421

GLP: yes

Effects on fetal development : Species: Rat

Application Route: Oral

Dose: 200 milligram per kilogram

General Toxicity Maternal: NOAEL: 50 mg/kg body weight

Embryo-fetal toxicity .: 50 mg/kg body weight

Method: OECD Test Guideline 421

Reproductive toxicity - As-

sessment

Print Date: 02/07/2023

Clear evidence of adverse effects on sexual function and fertil-

ity, based on animal experiments.

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: >= 1,000 mg/kg bw/day

Fertility: NOAEL: >= 1,000 mg/kg bw/day

Early Embryonic Development: NOAEL: >= 1,000 mg/kg

bw/day

Method: OECD Test Guideline 421

Result: No effects on fertility and early embryonic develop-

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ment were detected.

GLP: yes

Remarks: Test results on an analogous product

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

Effects on fertility : General Toxicity Parent: NOAEL: 45 mg/kg body weight

Fertility: NOAEL: 150 mg/kg body weight

Early Embryonic Development: NOAEL: 45 mg/kg body

weight

**Proprietary Ingredient:** 

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Rat, male and female

Application Route: Oral

Dose: 16 - 40 - 100 milligram per kilogram

General Toxicity Parent: NOAEL: > 100 mg/kg body weight Early Embryonic Development: NOAEL: > 100 mg/kg body

weight

Method: OECD Test Guideline 421

Result: negative GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Effects on fertility : Test Type: Fertility/early embryonic development

Species: Rat, male and female

Application Route: Oral

Dose: 25-75-225 milligram per kilogram

General Toxicity Parent: NOAEL: 25 mg/kg bw/day

Fertility: NOEL: 225 mg/kg bw/day Method: OECD Test Guideline 422

Result: Animal testing did not show any effects on fertility.

GLP: yes

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rabbit, female Application Route: Oral

Dose: 10-30-100 milligram per kilogram

General Toxicity Maternal: NOAEL: 30 mg/kg bw/day

Teratogenicity: NOAEL: 100 mg/kg bw/day Developmental Toxicity: NOEL: 30 mg/kg bw/day

Method: OECD Test Guideline 414

Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

GLP: yes

Reproductive toxicity - As-

sessment

Some evidence of adverse effects on sexual function and

fertility, based on animal experiments.

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### STOT-single exposure

Not classified based on available information.

#### Components:

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

Assessment : May cause respiratory irritation.

# STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### **Components:**

# Aliphatic dibasic acid, glycol ester:

Species : Rat

NOAEL : 300 mg/kg Application Route : Oral

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

Species : Rat, male
NOAEL : 12.7 mg/kg
Application Route : Oral
Exposure time : 1.5 yr
Number of exposures : daily

GLP : no

Remarks : Chronic toxicity

#### 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 product

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

Species : Rat

NOAEL : 45 mg/kg

Application Route : Oral

**Proprietary Ingredient:** 

Species : Rat, male and female

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NOAEL : 100 mg/kg
Application Route : Oral
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

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Rat, male and female

NOAEL : 25 mg/kg
Application Route : Oral
Exposure time : 28 d
Number of exposures : daily

Dose : 25-75-225 mg/kg bw/d Method : OECD Test Guideline 422

GLP : yes

Remarks : Subacute toxicity

## **Aspiration toxicity**

Not classified based on available information.

#### Components:

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

May be fatal if swallowed and enters airways.

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

### **Ecotoxicity**

#### Components:

### Phosphonic acid, dibutyl ester:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 63.4 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

NOEC (Daphnia magna (Water flea)): 4.1 mg/l

Exposure time: 21 Days

Method: OECD Test Guideline 211

Toxicity to algae/aquatic

plants

: NOEC (Pseudokirchneriella subcapitata (microalgae)): 3 mg/l

Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (microalgae)): 4.1 mg/l

Exposure time: 72 h

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# **ADDITIN M 97.003**



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EC50 (Pseudokirchneriella subcapitata (microalgae)): 8.9 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 4.1 mg/l

Exposure time: 21 Days

EC50 (Daphnia magna (Water flea)): 18 mg/l

Exposure time: 21 Days

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

: LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: ErC50 (Pseudokirchneriella subcapitata (microalgae)): > 10

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): > 10

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Aliphatic dibasic acid, glycol ester:

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

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

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Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 84.91 mg/l

# **ADDITIN M 97.003**



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aquatic invertebrates 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

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 5 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Dosage caused no mortality

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 4.8 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 5 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (microalgae)): 1.3

mg/l

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

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Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.34 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 202

GLP: ves

Toxicity to microorganisms EC50 (activated sludge): > 10,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: no

**Ecotoxicology Assessment** 

Chronic aquatic toxicity This product has no known ecotoxicological effects.

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: ves

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

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (green algae)): > 100

ma/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 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 product

Toxicity to daphnia and other : NOELR (Daphnia magna (Water flea)): 10 mg/l

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aquatic invertebrates (Chron-

ic toxicity)

End point: Reproduction Exposure time: 21 d

Analytical monitoring: No information available.

Method: OECD Test Guideline 211

GLP: yes

Remarks: water extractable fraction

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

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC10 (Daphnia magna (Water flea)): 1.93 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: ErC50 (Desmodesmus subspicatus (green algae)): 0.976 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0.658 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 13 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

**Proprietary Ingredient:** 

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

Exposure time: 48 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 202

GLP: ves

Remarks: Fresh water

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

End point: Growth rate Exposure time: 72 h

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# **ADDITIN M 97.003**



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Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: yes

Remarks: Fresh water nominal concentration 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

## Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l

End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 203

GLP: no

Remarks: Fresh water nominal concentration

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 51 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 nominal concentration

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water nominal concentration

NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l

End point: Growth rate

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Exposure time: 72 h
Test Type: static test
Analytical monitoring: no

Method: OECD Test Guideline 201

GLP: no

Remarks: Fresh water nominal concentration

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EL10 (Daphnia magna (Water flea)): 1.69 mg/l

End point: Reproduction Exposure time: 21 Days Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: Fresh water nominal concentration water extractable fraction

Toxicity to microorganisms : 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

# Persistence and degradability

## Components:

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

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 12 % Exposure time: 28 d

Method: OECD Test Guideline 301B

# Aliphatic dibasic acid, glycol ester:

Biodegradability : Biodegradation: 0 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

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

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

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Method: OECD Test Guideline 301C

GLP: yes

Distillates (petroleum), hydrotreated light naphthenic:

Biodegradability : Result: Not readily biodegradable.

**Proprietary Ingredient:** 

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

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20.1 mg/l

Result: Not readily biodegradable.

Biodegradation: 1 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

Bioaccumulative potential

Components:

Aliphatic dibasic acid, glycol ester:

Partition coefficient: n-: log Pow: 1.84 (77 °F / 25 °C)

octanol/water Method: OECD Test Guideline 117

GLP: yes

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol:

Bioaccumulation Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 840 Method: OECD Test Guideline 305

GLP: yes

Partition coefficient: n-

: log Pow: 6.25 (68 °F / 20 °C)

octanol/water Method: OECD Test Guideline 117

GLP: no

**Proprietary Ingredient:** 

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Partition coefficient: n-

octanol/water

: log Pow: 4.69

Method: OECD Test Guideline 107

GLP: yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-

octanol/water

log Pow: 6.66 (73 °F / 23 °C)

pH: 6.67

Method: OECD Test Guideline 123

GLP: yes

Remarks: Based on data from similar materials

Mobility in soil

No data available

Other adverse effects

**Components:** 

6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol:

Results of PBT and vPvB

assessment

This substance is not considered to be very persistent and very bioaccumulating (vPvB). This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

#### **Disposal methods**

RCRA - Resource Conserva- : tion and Recovery Authoriza-

tion 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

Empty containers retain product residue; observe all precau-

tions 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

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# **ADDITIN M 97.003**



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#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

# 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**

Not regulated as a dangerous good

## Hazard and Handling Notes.

Not dangerous cargo, Risk of serious damage to eyes, Irritating to skin., Keep separated from foodstuffs

#### **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
Skin corrosion or irritation

Serious eye damage or eye irritation

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

Phosphonic acid, dibutyl ester Distillates (petroleum), hydrotreated light naph-	1809-19-4 64742-53-6	5 - 10 1 - 5
thenic Benzenamine, N-phenyl-, reaction products with	68411-46-1	> 1
2,4,4-trimethylpentene	00111 10 1	, ,
formaldehyde	50-00-0	< 0.001

#### Pennsylvania Right To Know

Proprietary fatty acid compound	Trade secret	50 - 70
Proprietary sulfur hydrocarbon	Trade Secret	> 1
Phosphonic acid, dibutyl ester	1809-19-4	5 - 10
Proprietary non-hazardous ingredient	Trade Secret	> 1

# **ADDITIN M 97.003**



Version 2.0	Revision Date: 08/16/2022	SDS Number: 20300007420	Date of last issue: 04/21/20 Country / Language: US / E		
	Amines, C11-14- dihexyl phosphat	branched alkyl, monoh	exyl and	80939-62-4	5 - 10
	Aliphatic dibasic			P-88-2640	> 1
		di-tert-butyl-2,2'-methylenedi-p-cresol stillates (petroleum), hydrotreated light naph-			1 - 5
					1 - 5
	thenic		-		
	1-Butanol			71-36-3	< 1
	diphenylamine			122-39-4	< 0.1

## California Prop. 65

WARNING: This product can expose you to chemicals including formaldehyde, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

## TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

#### **TSCA list**

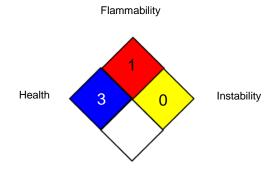
No substances are subject to a Significant New Use Rule.

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

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

#### Further information

### NFPA 704:



Special hazard

#### HMIS® IV:



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

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# **ADDITIN M 97.003**



Version Revision Date: SDS Number: Date of last issue: 04/21/2022 2.0 08/16/2022 203000007420 Country / Language: US / EN

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 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

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