# **ADDITIN RC 9502**



Version Revision Date: SDS Number: Date of previous issue: 11/29/2017 1.0 12/18/2018 103000012284 Country / Language: US / EN

### **SECTION 1. IDENTIFICATION**

Product name : ADDITIN RC 9502

Material number : 58175926

Recommended use : Additive for lubricants

Manufacturer or supplier's details

Supplier : LANXESS Corporation

**Product Safety & Regulatory Affairs** 

111 RIDC Park West Drive PittsburghPA 15275-1112

USA

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+14128091000 (international)

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### **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

**GHS** label elements

Hazard pictograms :





Signal Word : Danger

Hazard Statements : Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage.

Causes serious eye damage

Precautionary Statements : Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Wash skin thoroughly after handling.

Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves/ eye protection/ face protection.

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### 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 skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

## Disposal:

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

## **Hazard Not Otherwise Classified (HNOC)**

None known.

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

Substance / Mixture : Mixture

# **Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
Phosphorodithioic acid, mixed O,O-bis(2-	68442-22-8	>= 30 - < 50
ethylhexyl and iso-Bu) esters, zinc salts		
Naphthenic acids, zinc salts	12001-85-3	>= 5 - < 10
Distillates (petroleum), hydrotreated heavy	64742-52-5	>= 1 - < 5
naphthenic		
Distillates, petroleum, hydrotreated light	64742-53-6	>= 1 - < 5
naphthenic		
Tolytriazole	29385-43-1	>= 1 - < 5
Distillates (petroleum), hydrotreated light	64742-55-8	>= 1 - < 5
paraffinic		

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

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

If inhaled : Remove victim to fresh air and keep at rest in a position com-

fortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per-

sonnel.

Get medical attention.

In case of skin contact : Get medical attention.

Wash off with soap and plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use.

In the event of any complaints or symptoms, avoid further

exposure.

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In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting

the upper and lower eyelids.

Remove contact lenses.

Continue to rinse for at least 20 minutes. Get medical attention if symptoms appear.

Chemical burns must be treated promptly by a physician.

If swallowed : Rinse mouth with water.

Do not induce vomiting. Drink water. Call physician immedi-

ately.

If vomiting occurs, the head should be kept low so that vomit

does not enter the lungs.

# Most important symptoms and effects, both acute and delayed

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

stinging, and swelling.

Skin: May cause irritation with symptoms of reddening and

itching.

May cause sensitization by skin contact.

Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Effects : Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Protection of first-aiders : No action shall be taken involving any personal risk or without

suitable training.

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : Treat symptomatically.

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

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

cumstances and the surrounding environment.

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

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.

Water runoff from fire fighting may be corrosive.

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Hazardous combustion prod: :

ucts

Carbon dioxide (CO2)
Carbon monoxide

Oxides of phosphorus

Sulfur oxides Metal oxides

Nitrogen oxides (NOx)

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, protec-:

tive equipment and emergency procedures

No action shall be taken involving any personal risk or without

suitable training.

Put on appropriate personal protection equipment.

Do not touch or walk through spilled material.

Evacuate personnel to safe areas.

Keep unnecessary and unprotected personnel from entering.

Do not breathe vapors or spray mist.

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.

Wash spillages into an effluent treatment plant or proceed as

ewollo

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Dispose of wastes in an approved waste disposal facility. Do not allow into the sewerage system, surface waters or

groundwater or into the soil.

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

Advice on safe handling : Do not breathe vapors/dust.

Avoid 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.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

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plication area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

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 container closed when not in 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.

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 (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
Distillates, petroleum, hy- drotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m3	ACGIH
Distillates (petroleum), hy- drotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

**Engineering measures** : Use only with adequate ventilation.

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 : Use appropriate respiratory protection if there is a risk of

exceeding any exposure limits.

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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.

Filter type : Combined inorganic and acidic gas/vapor, ammonia/amines

and organic vapor type

Hand protection

Material : PVC

Eye protection : Safety goggles

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday. 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**

Physical state : liquid

Color : amber

Odor : not significant

Odor Threshold : No data available

pH : No data available

Melting point/range : -13 °F (-25 °C)

Boiling point/boiling range : No data available

Flash point : 338 °F (170 °C)

Method: DIN ISO 2592, open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : Autoignition temperature

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Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.05 g/cm³ (68 °F (20 °C))

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : 76 mm2/s (104 °F (40 °C))

Explosive properties : No data available

Oxidizing properties : No data available

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

Reactivity : No specific test data related to reactivity available for this

product or its ingredients.

Possibility of hazardous reac-

tions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Reducing agents

Oxidizing agents Acids and bases

Hazardous decomposition

products

No data available

# **SECTION 11. TOXICOLOGICAL INFORMATION**

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

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## **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : LD50 (Rat): 24,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): 43.4 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

### **Components:**

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

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

Method: OECD Test Guideline 402

GLP: yes

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Naphthenic acids, zinc salts:

Acute oral toxicity : LD50 (Rat): 4,920 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 11.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD0 (Rabbit): > 2,000 mg/kg

Distillates (petroleum), hydrotreated heavy naphthenic:

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

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

Distillates, petroleum, hydrotreated light naphthenic:

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

Method: OECD Test Guideline 401

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

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 402

Tolytriazole:

Acute oral toxicity : LD50 (Rat, male and female): 720 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC0 (Rat, male and female): > 1.7 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

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

GLP: yes

Remarks: Extrapolation according to Regulation (EC) No.

440/2008

Distillates (petroleum), hydrotreated light paraffinic:

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

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC0 (Rat, male and female): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Method: OECD Test Guideline 402

GLP: yes

Skin corrosion/irritation

Causes skin irritation.

**Components:** 

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Result: Irritating to skin.

Naphthenic acids, zinc salts:

Result: No skin irritation

Distillates (petroleum), hydrotreated heavy naphthenic:

Result: No skin irritation

Distillates, petroleum, hydrotreated light naphthenic:

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Species: Rabbit

Result: No skin irritation

Tolytriazole:

Species: Rabbit

Result: No skin irritation

### Serious eye damage/eye irritation

Causes serious eye damage.

## **Components:**

### Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Result: Risk of serious damage to eyes.

#### Naphthenic acids, zinc salts:

Result: Eye irritation

Assessment: Irritating to eyes.

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

Result: No eye irritation

### Distillates, petroleum, hydrotreated light naphthenic:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

### Respiratory or skin sensitization

### Skin sensitization

May cause an allergic skin reaction.

### Respiratory sensitization

Not classified based on available information.

### **Components:**

### Naphthenic acids, zinc salts:

Method: OECD Test Guideline 442D

Result: The product is a skin sensitiser, sub-category 1B.

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

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

## Distillates, petroleum, hydrotreated light naphthenic:

Routes of exposure: Skin contact

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Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

Tolytriazole:

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

Distillates (petroleum), hydrotreated light paraffinic:

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 based on available information.

**Components:** 

Naphthenic acids, zinc salts:

Genotoxicity in vitro : Result: negative

Distillates (petroleum), hydrotreated heavy naphthenic:

Genotoxicity in vitro : Test system: Mammalian-Animal

Method: OECD Test Guideline 473

Result: negative

Tolytriazole:

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

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative GLP: yes

Distillates (petroleum), hydrotreated light paraffinic:

Genotoxicity in vitro : Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

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Test system: Mammalian-Animal

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Test system: Bacteria

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: positive

### Carcinogenicity

Not classified based on available information.

### **Components:**

### 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)

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

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

Not classified based on available information.

#### Components:

# Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Effects on fetal development : Species: Rat

Application Route: Oral

Dose: 160 milligram per kilogram Result: No teratogenic potential.

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

Effects on fetal development : Species: Rat

Application Route: Dermal

Dose: 0 - 2000 milligram per kilogram Result: No teratogenic potential.

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## Distillates (petroleum), hydrotreated light paraffinic:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: >= 1000 milligram per kilogram Duration of Single Treatment: 2.5 yr

General Toxicity F1: NOAEL: >= 1,000 mg/kg body weight

Method: OECD Test Guideline 421

GLP: yes

Effects on fetal development : Species: Rat, female

Application Route: Dermal Dose: 125 milligram per kilogram

Duration of Single Treatment: 18 d

General Toxicity Maternal: LOAEL: 125 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Species: Rat, female Application Route: Dermal

Dose: >= 2000 milligram per kilogram Duration of Single Treatment: 18 d

Teratogenicity: NOAEL: >= 2,000 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

### STOT-single exposure

Not classified based on available information.

### **Components:**

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

Assessment: May cause respiratory irritation.

## Distillates, petroleum, hydrotreated light naphthenic:

Assessment: May cause respiratory irritation.

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

Assessment: May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

## Repeated dose toxicity

# **Components:**

#### Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Species: Rat NOAEL: 160 mg/kg Application Route: Oral

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Dose: 160 mg/kg

Remarks: Chronic toxicity

## Tolytriazole:

Species: Rat

NOAEL: 150 mg/kg Application Route: Oral Exposure time: 28 d

Remarks: Subacute toxicity

# Distillates (petroleum), hydrotreated light paraffinic:

Species: Rat, male LOAEL: 125 mg/kg Application Route: Oral Exposure time: 90 d

Number of exposures: 5 days/week

Dose: 125 mg/kg

Method: OECD Test Guideline 408 Remarks: Subchronic toxicity

Species: Rabbit, male and female

NOAEL: 1,000 mg/kg

Application Route: Skin contact

Exposure time: 28 d Dose: 1000 mg/kg

Method: OECD Test Guideline 410

GLP: yes

Remarks: Subacute toxicity

Species: Rat, male and female

NOAEL: > 980 mg/m<sup>3</sup> Application Route: Inhalation Test atmosphere: dust/mist Exposure time: 28 d

Dose: > 980 mg/m<sup>3</sup>

GLP: no

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.

# Distillates (petroleum), hydrotreated light paraffinic:

May be fatal if swallowed and enters airways.

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**Further information** 

**Product:** 

Remarks: No data available

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

## **Ecotoxicity**

### Components:

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Fresh water

NOEC (Oncorhynchus mykiss (rainbow trout)): 1.8 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 23 mg/l

Exposure time: 48 h Remarks: Fresh water

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Fresh water

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 21 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

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

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.4 mg/l

Exposure time: 21 Days Remarks: Fresh water

Naphthenic acids, zinc salts:

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

Exposure time: 96 h

Remarks: water extractable fraction

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 35 mg/l

Exposure time: 48 h

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Remarks: water extractable fraction

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (microalgae)): 4 mg/l

Exposure time: 72 h

Remarks: water extractable fraction

Distillates (petroleum), hydrotreated heavy naphthenic:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

EL50 (Daphnia magna (Water flea)): > 100,000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 202

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Fresh water

Toxicity to microorganisms IC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l

Exposure time: 96 h

Distillates, petroleum, hydrotreated light naphthenic:

LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae NOEC (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

**Tolytriazole:** 

Toxicity to fish LC50 (Cyprinodon variegatus (sheepshead minnow)): 55 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 55 mg/l

Exposure time: 48 h Remarks: Fresh water

EC50 (Daphnia galeata (Water flea)): 8.58 mg/l

Exposure time: 48 h

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ErC50 (Desmodesmus subspicatus (green algae)): 62 mg/l Toxicity to algae

Exposure time: 72 h Remarks: Fresh water

NOEC (Skeletonema costatum (marine diatom)): 30 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 18.4 mg/l Exposure time: 21 Days

EC10 (Daphnia galeata (Water flea)): 0.4 mg/l

Exposure time: 21 Days

Method: OECD Test Guideline 211

Distillates (petroleum), hydrotreated light paraffinic:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Fresh water

NOEC (Pseudokirchneriella subcapitata (microalgae)): > 100 Toxicity to algae

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Fresh water

Toxicity to fish (Chronic tox-

icity)

NOAEL (No observed adverse effect level) (Oncorhynchus

mykiss (rainbow trout)): > 1,000 mg/l

Exposure time: 14 d Method: QSAR GLP: yes

Remarks: Fresh water

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

GLP: ves

Remarks: Fresh water

Persistence and degradability

**Components:** 

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Biodegradability Result: Not readily biodegradable.

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Naphthenic acids, zinc salts:

Biodegradability : Result: Inherently biodegradable.

Distillates (petroleum), hydrotreated heavy naphthenic:

Biodegradability : aerobic

Concentration: 44 mg/l

Result: Inherently biodegradable.

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301F

GLP: yes

Distillates, petroleum, hydrotreated light naphthenic:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Tolytriazole:

Biodegradability : Result: Not readily biodegradable.

Distillates (petroleum), hydrotreated light paraffinic:

Biodegradability : aerobic

Result: Not readily biodegradable.

Biodegradation: 2 - 4 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

**Bioaccumulative potential** 

**Components:** 

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts:

Partition coefficient: n-

octanol/water

: log Pow: 1.67

Naphthenic acids, zinc salts:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

: log Pow: 1.89 - 11.15 (20 °C)

octanol/water

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Distillates (petroleum), hydrotreated heavy naphthenic:

Partition coefficient: n-

octanol/water

 $\log Pow: > 6$ 

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**Tolytriazole:** 

Bioaccumulation Bioconcentration factor (BCF): 2.4

Partition coefficient: n-

octanol/water

log Pow: 1.08

Mobility in soil

Components:

Tolytriazole:

Distribution among environ-

mental compartments

Koc: 110

Other adverse effects

**Product:** 

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

**SECTION 13. DISPOSAL CONSIDERATIONS** 

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)

Disposal methods 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** 

**Domestic regulation** 

DOT

UN/ID/NA number UN 3082

Environmentally hazardous substance, liquid, n.o.s. Proper shipping name

(PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-

ETHYLHEXYL AND ISOBUTYL) ESTERS, ZINC SALTS)

Class 9

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Packing group : III Labels : 9

:



Marine pollutant : yes

¥2

Further information for

transport

The U.S. DOT regulations in 49 CFR 172.102 permit this ma-

terial to ship as an Environmentally Hazardous Substance,

Class 9, using Special Provision 146.

### International Regulations

IATA-DGR

UN/ID No. : UN 3082

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

(PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYL)ESTERS, ZINC SALTS)

Class : 9 Packing group : III

Labels

Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

Environmentally hazardous

964: 450.00 L

964: 450.00 L

s : yes

¥2

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYL)ESTERS, ZINC SALTS)

Class : 9
Packing group : III
Labels : 9

# **ADDITIN RC 9502**



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Marine pollutant : yes



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

Not applicable for product as supplied.

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

### **CERCLA**

None

### **Reportable Quantity**

This material does not contain any components with a CERCLA 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 : Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Components	CAS-No.	Concentration
Phosphorodithioic acid, mixed	68442-22-8	30 - 50 %
O,O-bis(2-ethylhexyl and iso-Bu)		
esters, zinc salts		

114aprili 101110 adias, 21110 saits   1200 1 00 0		Naphthenic acids, zinc salts	12001-85-3	5 - 10 %
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## **US State Regulations**

## **Massachusetts Right To Know**

Distillates (petroleum), hydrotreated heavy naph-	64742-52-5	1 - 5
thenic		
Distillates, petroleum, hydrotreated light naph-	64742-53-6	1 - 5
thenic		
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5
Distillates, petroleum, solvent-refined light naph-	64741-97-5	0.1 - 1
thenic		

## Pennsylvania Right To Know

# **ADDITIN RC 9502**



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	•	c acid, mixed O,O-bis(2- b-Bu) esters, zinc salts	68442-22-8	30 - 50		
		able-oil, Me esters, sulfuriz	red 72102-30-8	15 - 40		
	Naphthenic acids	, zinc salts	12001-85-3	5 - 10		
	Pentene, 2,4,4-tri	methyl-, sulfurized	68515-88-8	3 - 7		
	Distillates (petroleum), hydrotreated heavy naphthenic		aph- 64742-52-5	1 - 5		
	Distillates, petrole thenic	eum, hydrotreated light nap	h- 64742-53-6	1 - 5		
	Tolytriazole		29385-43-1	1 - 5		
		eum), hydrotreated light pai	affinic 64742-55-8	1 - 5		

### California Prop. 65

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

## **TSCA** inventory

TSCA : On TSCA Inventory

### **TSCA list**

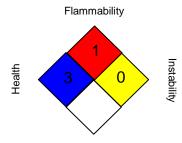
No substances are subject to a Significant New Use Rule.

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

## **SECTION 16. OTHER INFORMATION**

# **Further information**

### NFPA:



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.

LANXESS' method of hazard communication is comprised of Product Labels and Safety Data Sheets. HMIS and NFPA ratings are provided by LANXESS as a customer service.

Revision Date : 12/18/2018

# **ADDITIN RC 9502**



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