

# SAFETY DATA SHEET

## ADDITIN RC 9505



Version 1.0      Revision Date: 12/13/2018      SDS Number: 103000011113      Date of previous issue: 11/29/2017  
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### SECTION 1. IDENTIFICATION

Product name : ADDITIN RC 9505  
Material number : 05424739  
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  
Telephone : +1800LANXESS  
+14128091000 (international)  
Emergency telephone : CHEMTREC (800) 424 9300  
International (703) 527 3887  
Lanxess Emergency Phone (800) 410-3063


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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  
Eye irritation : Category 2A  
Skin sensitization : Category 1

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

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.  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: 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  
Chemical nature : DI-ALKYLAMINOMETHYL-TOLYLTRIAZOLE, preparation

### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	>= 30 - < 50
Proprietary aromatic sulfonic calcium compound	Trade Secret	>= 10 - < 20
Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	>= 5 - < 10
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	>= 1 - < 5
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	>= 1 - < 5
Proprietary benzotriazole amine	Trade Secret	>= 0.1 - < 1

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 material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : Get medical attention.  
Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
If unconscious, place in recovery position and get medical

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attention immediately.  
In case of inhalation of decomposition products in a fire, symptoms may be delayed.  
The exposed person may need to be kept under medical surveillance for 48 hours.  
Maintain open airway.  
Loosen tight clothing such as a collar, tie, belt or waistband.

- In case of skin contact : Wash off immediately with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. In case of contact, immediately flush skin with plenty of water.
- In case of eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. 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. Get medical attention.
- If swallowed : Rinse mouth with water. Do not induce vomiting unless directed to do by medical personnel. Get medical attention if symptoms occur.

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

- Symptoms : Skin: Causes irritation with symptoms of reddening, itching, and swelling. Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels. Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
- Effects : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
- Notes to physician : No special actions required.

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### 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.
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- 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.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Oxides of phosphorus  
Sulfur oxides  
Metal oxides  
Nitrogen oxides (NO<sub>x</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.
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### 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.  
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.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- 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 follows.  
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.
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### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not get in eyes or mouth or on skin.  
Use only with adequate ventilation.  
Remove contaminated clothing and protective equipment be-
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fore entering eating areas.  
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.

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 contamination.

Recommended storage temperature : < 104 °F (< 40 °C)

Further information on storage 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, hydrotreated light naphthenic	64742-53-6	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	OSHA P0
		TWA (Mist)	5 mg/m <sup>3</sup>	NIOSH REL
		ST (Mist)	10 mg/m <sup>3</sup>	NIOSH REL
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable fraction)	5 mg/m <sup>3</sup>	ACGIH

Engineering measures : Use only with adequate ventilation.

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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
  - Break through time : < 60 min
- Eye protection : Safety goggles
- Skin and body protection : Wear suitable protective clothing.
- 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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Color : brown
- Odor : characteristic
- Odor Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : > 356 °F (> 180 °C)  
Method: DIN ISO 2592, open cup
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available

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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/cm <sup>3</sup> (68 °F (20 °C))
Solubility(ies)	:	
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	320 cSt (104 °F (40 °C))
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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### 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.
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	:	Reducing agents Oxidizing agents Acids and bases
Hazardous decomposition products	:	No data available
Hazardous decomposition products	:	Stable under normal conditions. Spontaneous decomposition may start at 150°C. After prolonged heating, slow decomposition may start at above 80°C.

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Formation of alkylmercaptans, dialkylsulphides, traces of hydrogen sulphide possible.

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## SECTION 11. TOXICOLOGICAL INFORMATION

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

### Acute toxicity

Not classified based on available information.

#### Product:

- Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 185.51 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:

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

- Acute oral toxicity : LD50 (Rat): 3,080 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

##### **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 inhalation toxicity
- Acute dermal toxicity : LD50 Dermal (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402

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

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

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

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

Acute inhalation toxicity : LC50 (Rat): > 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 inhalation toxicity  
Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### **Proprietary benzotriazole amine:**

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

### **Skin corrosion/irritation**

Causes skin irritation.

#### **Product:**

Result: Irritating to skin.

#### **Components:**

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

Result: Irritating to skin.

**Distillates, petroleum, hydrotreated light naphthenic:**

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Species: Rabbit  
Result: No skin irritation

### **Proprietary benzotriazole amine:**

Species: Rabbit  
Exposure time: 24 h  
Result: Irritating to skin.

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

Causes serious eye irritation.

### **Product:**

Result: Irritating to eyes.

### **Components:**

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

Result: Irritating to eyes.

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

Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

#### **Proprietary benzotriazole amine:**

Species: Rabbit  
Result: No eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

### **Product:**

Remarks: Causes sensitization.

### **Components:**

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

Species: Guinea pig  
Assessment: Does not cause skin sensitization.  
Method: OECD Test Guideline 406  
Result: negative

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**Proprietary aromatic sulfonic calcium compound:**

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

**Distillates, petroleum, hydrotreated light 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 paraffinic:**

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitization on laboratory animals.

GLP: yes

**Proprietary benzotriazole amine:**

Routes of exposure: Dermal

Species: Guinea pig

Result: May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

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

Genotoxicity in vitro : Test Type: gene mutation test  
Test system: TA98  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
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

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

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

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

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

#### **Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

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**

Not classified based on available information.

### **Components:**

#### **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

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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

### **Proprietary benzotriazole amine:**

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

### **STOT-single exposure**

Not classified based on available information.

### **Components:**

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

Assessment: May cause respiratory irritation.

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

Assessment: May cause respiratory irritation.

#### **Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Assessment: May cause respiratory irritation.

### **STOT-repeated exposure**

Not classified based on available information.

### **Repeated dose toxicity**

### **Components:**

#### **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

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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

### **Proprietary benzotriazole amine:**

Species: Rat  
NOAEL: 45 mg/kg  
Application Route: Oral

### **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.

#### **Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

### **Further information**

#### **Product:**

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Components:**

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

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- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- NOEC (Oncorhynchus mykiss (rainbow trout)): 1.8 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 5.4 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- NOEC (Daphnia magna (Water flea)): < 1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : LC50 (Pseudokirchneriella subcapitata (algae)): 2.1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

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

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

### **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
- Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water

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Toxicity to fish (Chronic toxicity) : 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 (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Fresh water

### **Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 21 Days  
Method: OECD Test Guideline 211

### **Proprietary benzotriazole amine:**

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 : 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

M-Factor (Acute aquatic toxicity) : 1

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

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Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1.5 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

Result: Not readily biodegradable.

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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### **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

#### **Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:**

Biodegradability : Result: Not readily biodegradable.

#### **Proprietary benzotriazole amine:**

Biodegradability : Concentration: 20 mg/l  
Result: Readily biodegradable.  
Biodegradation: 94.4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological infor- : An environmental hazard cannot be excluded in the event of

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### 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 ISOBUTYLE AND ISOPROPYLE) ESTERS, ZINC SALTS)  
Class : 9  
Packing group : III  
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  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYLE AND ISOPROPYLE) ESTERS, ZINC SALTS)  
Class : 9  
Packing group : III  
Labels : 9



Marine pollutant : yes



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

Not applicable for product as supplied.

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### 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 O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	30 - 50 %

#### US State Regulations

##### Massachusetts Right To Know

Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	5 - 10
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	1 - 5

##### Pennsylvania Right To Know

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	30 - 50
Proprietary vegetable oil	Trade Secret	10 - 30
Proprietary aromatic sulfonic calcium compound	Trade Secret	7 - 13
Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	5 - 10
Proprietary sulfur hydrocarbon	Trade Secret	3 - 7
Fatty acids, vegetable-oil, Me esters, sulfurized	72102-30-8	3 - 7
Proprietary Thiadiazole	Trade Secret	1 - 5
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	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

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### TSCA list

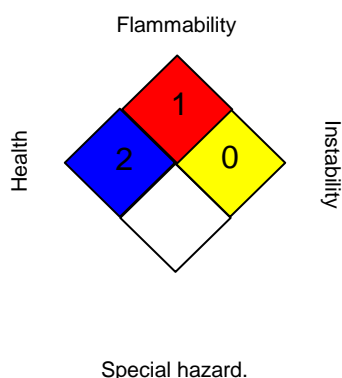
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:



#### HMIS® IV:

HEALTH	/	2
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.

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 : 12/13/2018

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of our knowledge. The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. We assume no legal responsibility for use of or reliance upon the information in this SDS.