# **ADDITIN RC 3180**



Version Revision Date: SDS Number: Date of last issue: 09/30/2020 2.0 10/03/2024 203000001805 Country / Language: US / EN

#### **SECTION 1. IDENTIFICATION**

Product name : ADDITIN RC 3180

Product code : 0000000001180952

Manufacturer or supplier's details

Company : LANXESS Corporation

Product Safety & Regulatory Affairs

111 RIDC Park West Drive

Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS

(412) 809-1000

lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or

(703) 527-3887 (Outside U.S.A) and mention CCN12916.

Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Additive for lubricants

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

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

Serious eye damage : Category 1

**GHS** label elements

Hazard pictograms

Signal Word : Danger

Hazard Statements : Causes serious eye damage.

Precautionary Statements : Prevention:

Wear eye protection/ face protection.

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### Response:

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.

#### Other hazards

None known.

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

Substance / Mixture : Substance

Substance name : Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-,

(T-4)

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Zinc, bis[O,O-bis(2-ethylhexyl) phos-	4259-15-8	>= 90 - <= 100
phorodithioato-kS,kS']-, (T-4)		

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

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

General advice : Do not leave the victim unattended.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and water.

Get medical attention if symptoms occur.

In case of eye contact : Get medical attention immediately.

In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated

and that the eye is being irrigated.

Remove contact lenses, if present and easy to do. Continue

rınsıng.

Chemical burns must be treated promptly by a physician.

If swallowed : Rinse mouth with water.

Do not induce vomiting unless directed to do by medical per-

sonnel.

Get medical attention if symptoms occur.

# Most important symptoms and effects, both acute and delayed

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

ing, burning and possible permanent damage.

Effects : Causes serious eye damage.

Protection of first-aiders : 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 water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Water runoff from fire fighting may be corrosive.

May release toxic, irritating and/or corrosive gases.

Hazardous combustion prod-

ucts

Carbon dioxide (CO2)

Carbon monoxide Sulfur oxides

Oxides of phosphorus

Metal oxides

Carbon dioxide (CO2) Carbon monoxide Sulfur oxides

Oxides of phosphorus

Metal oxides

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

Wear self-contained breathing apparatus for firefighting if nec-

essary.

**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.

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Evacuate personnel to safe areas.

Keep unnecessary and unprotected personnel from entering.

Provide adequate ventilation. Do not breathe vapors, aerosols.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Stop leak if safe to do so.

Move containers from spill area.

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.

Contaminated absorbent material may pose the same hazard

as the spilled product.

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

Advice on safe handling : Remove contaminated clothing and protective equipment be-

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.

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.

Empty containers retain residue and can be dangerous.

Do not reuse container.

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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

Contains no substances with occupational exposure limit values.

**Engineering measures** : Good general ventilation should be sufficient to control work-

er exposure to airborne contaminants.

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.

The following respirator is recommended if airborne concen-

trations exceed the appropriate standard/guideline.

A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize

exposure.

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.

Eye protection : Tightly fitting safety goggles

If inhalation hazards exist, a full-face respirator may be re-

quired instead.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands, forearms and face thoroughly after handling

chemical products, before eating, smoking and using the

lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially

contaminated clothing.

Wash contaminated clothing before reusing.

Ensure that eyewash stations and safety showers are close

to the workstation location.

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

Appearance : viscous liquid

Physical state liquid

Color amber

Odor characteristic

Odor Threshold No data available

5.5 - 6.5рΗ

Pour point -17 °F / -27 °C

Boiling point/boiling range : (1,013 hPa)

Decomposition: Yes

: 297 °F / 147 °C Flash point

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) No data available

Remarks: No data available

Self-ignition : 464 °F / 240 °C

Autoignition temperature

Upper explosion limit / Upper : No data available

flammability limit

Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure : 0.000042 hPa (77 °F / 25 °C)

Relative vapor density No data available

Relative density No data available

Density 1.15 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : 0.0091 g/l

Solubility in other solvents : No data available

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Partition coefficient: n-

octanol/water

: log Pow: 3.59

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 300 mm2/s (104 °F / 40 °C)

Explosive properties : No data available

Oxidizing properties : No data available

Molecular weight : 772 g/mol

### **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 reac-

tions

Under normal conditions of storage and use, hazardous reac-

tions will not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Reducing agents

Oxidizing agents Acids and bases

Hazardous decomposition

products

Formation of alkylmercaptans, dialkylsulphides, traces of hy-

drogen sulphide possible.

After prolonged heating, slow decomposition may start at

above 80°C.

Decomposition begins at 180 °C with longer persisting heat-

ing.

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

#### Information on likely routes of exposure

Inhalation Eye contact Skin contact Ingestion

### **Acute toxicity**

Not classified due to lack of data.

#### Components:

## Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

Acute oral toxicity : LD50 (Rat): > 3,100 mg/kg

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

### Components:

## Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

Species : Rabbit

Result : No skin irritation

### Serious eye damage/eye irritation

Causes serious eye damage.

### **Components:**

#### Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

Species : Rabbit

Result : Risk of serious damage to eyes.

### Respiratory or skin sensitization

#### Skin sensitization

Based on available data, the classification criteria are not met.

### Respiratory sensitization

Not classified due to lack of data.

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### **Components:**

Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

Species : Guinea pig

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

### Germ cell mutagenicity

Not classified due to lack of data.

### Carcinogenicity

Not classified due to lack of data.

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 due to lack of data.

#### STOT-single exposure

Not classified due to lack of data.

## STOT-repeated exposure

Not classified due to lack of data.

### Repeated dose toxicity

## **Components:**

#### Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

NOAEL : 125 mg/kg

Method : OECD Test Guideline 407

### **Aspiration toxicity**

Not classified due to lack of data.

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

#### **Ecotoxicity**

### **Components:**

Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.4 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 75 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): > 240 mg/l

Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

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

Exposure time: 21 d

Toxicity to microorganisms : EC50 (Pseudomonas putida): 380 mg/l

Exposure time: 16 h

Method: OECD Test Guideline 209

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### Persistence and degradability

### Components:

Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-4):

Biodegradability : Result: Not readily biodegradable.

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

#### Other adverse effects

No data available

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

#### **Disposal methods**

RCRA - Resource Conservation and Recovery Authorization

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 classi-

fied as a hazardous waste. (40 CFR 261.20-24)

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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

**IATA-DGR** 

UN/ID No. : UN 3082

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

(2-ETHYLHEXYL-ZINCDITHIOPHOSPHATE)

Class Ш Packing group 9

Labels



Packing instruction (cargo

aircraft)

Packing instruction (passen-

ger aircraft)

Environmentally hazardous

964: 450.00 L

964: 450.00 L

yes

**IMDG-Code** 

**UN** number UN 3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(2-ETHYLHEXYL-ZINCDITHIOPHOSPHATE)

Class Packing group Ш Labels 9

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**EmS Code** F-A, S-F

Marine pollutant yes



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

Not applicable for product as supplied.

# **Domestic regulation**

**49 CFR** 

UN/ID/NA number : UN 3082

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

(2-ETHYLHEXYL-ZINCDITHIOPHOSPHATE)

9 Class Packing group Ш 9

Labels



**ERG Code** 171 Marine pollutant yes



### Hazard and Handling Notes.

Environmentally hazardous substance.

Risk of serious damage to eyes

Keep separated from foodstuffs

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

## Special precautions for user

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

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

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

#### **CERCLA 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 : Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

Zinc, bis[O,O- 4259-15-8 >= 90 - <= 100 %

bis(2-ethylhexyl) phosphorodithioato-kS,kS']-, (T-

4)

## **US State Regulations**

### **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

#### Pennsylvania Right To Know

Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato- 4259-15-8 >= 90 - <= 100 kS,kS']-, (T-4)

#### California Prop. 65

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

#### **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**

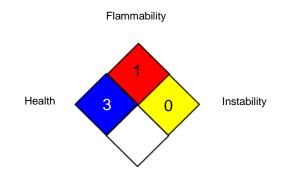
### **Further information**

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#### 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

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

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and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 10/03/2024

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.

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