# **ADDITIN RC 3580**



Version Revision Date: SDS Number: Date of previous issue: 10/30/2018 2.0 12/05/2020 103000010550 Country / Language: US / EN

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

Product name : ADDITIN RC 3580

Material number : 05058031

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

# **SECTION 2. HAZARDS IDENTIFICATION**

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

Skin irritation :

Skin sensitization : Category 1

**GHS** label elements

Hazard pictograms



Category 2

Signal Word : Warning

Hazard Statements : Causes skin irritation.

May cause an allergic skin reaction.

Precautionary Statements : Prevention:

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

Wash skin thoroughly after handling.

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Contaminated work clothing must not be allowed out of the

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workplace.

Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.

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

Chemical nature : Phosphorus, solution, in mineral oil

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Bis[O,O-bis(2-ethylhexyl) phosphorodithio-	72030-25-2	>= 70 - < 90
ato-kappaS,kappaS']dioxodi-mu-		
thioxodimolybdenum		
Distillates (petroleum), hydrotreated heavy	64742-52-5	>= 20 - < 30
naphthenic		

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

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

If inhaled : Get medical attention.

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

fortable for breathing.

If unconscious, place in recovery position and get medical

attention immediately. Maintain open airway.

Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per-

sonnel.

In case of skin contact : Get medical attention.

Wash off with soap and plenty of water. Continue to rinse for at least 20 minutes.

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Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

Wash contaminated clothing before re-use. Thoroughly clean shoes before reuse.

In the event of any complaints or symptoms, avoid further

exposure.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Continue to rinse for at least 10 minutes.

Remove contact lenses. Get medical attention.

If swallowed : Get medical attention.

Rinse mouth with water.

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

sonnel.

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 : 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.

May cause respiratory tract irritation with symptoms of cough-

ing, sore throat and runny nose.

Effects : Causes skin irritation.

May cause an allergic skin reaction.

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 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.

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Hazardous combustion prod: :

ucts

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

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.

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

follows.

Keep people away from and upwind of spill/leak.

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 : Remove contaminated clothing and protective equipment be-

fore entering eating areas.

Workers should wash hands and face before eating, drinking

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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.

Recommended storage tem-

perature

68 - 77 °F (20 - 25 °C)

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), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH

**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.

Recommended:

NIOSH approved, air-purifying organic vapor respirator.

Hand protection

Material : Use chemical-resistant, impervious gloves.

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Material : Polyvinyl chloride - PVC

Wearing time : < 60 min

Material : Nitrile rubber - NBR

Wearing time : < 60 min

Material : Butyl rubber - IIR

Wearing time : < 60 min

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

cation of degradation or chemical breakthrough.

Eye protection : Wear safety glasses with side shields or goggles.

Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or

aerosols.

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.

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

Physical state : liquid

Color : green, dark

Odor : slight

Odor Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 302 °F (150 °C)

Method: DIN ISO 2592, open cup

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Evaporation rate : No data available

Flammability (solid, gas) : No data available

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 : 1.08

Density : 1.08 g/cm³ (68 °F (20 °C))

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : soluble

Solvent: mineral oil

Partition coefficient: n-

octanol/water

No data available

Ignition temperature : No data available

Decomposition temperature : 302 °F (150 °C)

Viscosity

Viscosity, kinematic : 50 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.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac- :

tions

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Under normal conditions of storage and use, hazardous reac-

tions will not occur.

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Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Reducing agents

Oxidizing agents Acids and bases

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 Eye contact Skin contact Ingestion

# **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute inhalation toxicity : Acute toxicity estimate: 26.25 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

# **Components:**

Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Acute oral toxicity : LD50 (Rat): 6.81 ml/kg bw

Acute dermal toxicity : LD50 (Rabbit): 10 ml/kg bw

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

Skin corrosion/irritation

Causes skin irritation.

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# **Components:**

# Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Species: reconstructed human epidermis (RhE)

Method: OECD Test Guideline 439

Result: Irritating to skin.

# Distillates (petroleum), hydrotreated heavy naphthenic:

Result: No skin irritation

# Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

# Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Species: Bovine cornea Result: No eye irritation

Method: OECD Test Guideline 437

# Distillates (petroleum), hydrotreated heavy naphthenic:

Result: No eye irritation

#### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

# Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Test Type: Lymph nodes

Species: Mouse

Method: OECD Test Guideline 429

Result: Probability or evidence of low to moderate skin sensitization rate in humans

# 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.

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# Germ cell mutagenicity

Not classified based on available information.

### Components:

# Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Micronucleus test Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 487

Result: negative

Test Type: gene mutation test Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD 490 Result: negative

# Distillates (petroleum), hydrotreated heavy naphthenic:

Genotoxicity in vitro : Test system: Mammalian-Animal

Method: OECD Test Guideline 473

Result: negative

# Carcinogenicity

Not classified based on available information.

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.

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# **Components:**

# Distillates (petroleum), hydrotreated heavy naphthenic:

Effects on fetal development : Species: Rat

Application Route: Dermal

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

# STOT-single exposure

Not classified based on available information.

#### **Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Components:

# Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Assessment: May cause respiratory irritation.

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

Assessment: May cause respiratory irritation.

#### STOT-repeated exposure

Not classified based on available information.

# Repeated dose toxicity

#### **Components:**

# Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Species: Rat NOAEL: 100 mg/kg

Method: OECD Test Guideline 422

# **Aspiration toxicity**

Not classified based on available information.

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# **SECTION 12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

# Components:

Bis[O,O-bis(2-ethylhexyl) phosphorodithioato-kappaS,kappaS']dioxodi-muthioxodimolybdenum:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

> End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

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

End point: Immobilization Exposure time: 48 h

Method: OECD Test Guideline 202

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

End point: Growth rate Exposure time: 72 h

Method: OECD Test Guideline 201

EC50 (activated sludge): > 1,000 mg/l Toxicity to microorganisms

End point: Respiration inhibition

Exposure time: 3 h

Method: OECD Test Guideline 209

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

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### Persistence and degradability

### Components:

### 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

# **Bioaccumulative potential**

### **Components:**

# Distillates (petroleum), hydrotreated heavy naphthenic:

Partition coefficient: n-

octanol/water

: log Pow: > 6

# Mobility in soil

No data available

# Other adverse effects

No data available

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

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 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

way.

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.

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# **SECTION 14. TRANSPORT INFORMATION**

# **Domestic regulation**

#### DOT

Not regulated as a dangerous good

# **International Regulations**

#### **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.

#### **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 : Respiratory or skin sensitization

Skin corrosion or 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**

Distillates (petroleum), hydrotreated heavy naph- 64742-52-5 >= 20 - < 30 thenic

# Pennsylvania Right To Know

 $\begin{tabular}{ll} Bis[O,O-bis(2-ethylhexyl) phosphorodithioato- & 72030-25-2 & >= 70-<90 \\ kappaS,kappaS']dioxodi-mu-thioxodimolybdenum \\ Distillates (petroleum), hydrotreated heavy naph- & 64742-52-5 & >= 20-<30 \\ thenic & >= 20-<30 \\$ 

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### 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**

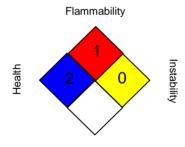
No substances are subject to a Significant New Use Rule.

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** : 12/05/2020

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.