ADDITIN RC 9701



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SECTION 1. IDENTIFICATION

Product name : ADDITIN RC 9701

Material number : 57397372

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 sensitization : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.

Precautionary Statements : Prevention:

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

Contaminated work clothing must not be allowed out of the

workplace.

Wear protective gloves.

Response:

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

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If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing 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)
Proprietary phosphorodithiotic acid ester	Trade Secret	>= 30 - < 50
benzotriazole	95-14-7	>= 1 - < 5

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

SECTION 4. FIRST AID MEASURES

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

Remove contact lenses.

Get medical attention if symptoms appear.

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

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.

Effects : May cause an allergic skin reaction.

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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.

Hazardous combustion prod-

ucts

Carbon dioxide (CO2)

Carbon monoxide Sulfur oxides

Oxides of phosphorus 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

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: : tive equipment and emer-

gency 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.

Provide adequate ventilation. Do not breathe vapors, aerosols.

Prevent product from entering drains. **Environmental precautions**

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 /

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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

Local/Total ventilation : Ensure adequate ventilation.

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

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 contamina-

Empty containers retain residue and can be dangerous.

Do not reuse container.

Recommended storage tem- : < 122 °F (< 50 °C)

perature

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-

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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.

Hand protection

Material : Nitrile rubber

Wearing time : < 60 min

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

cation of degradation or chemical breakthrough.

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 : red brown

Odor : slight, characteristic

Odor Threshold : No data available

pH : Not applicable

Melting point/range : -44 °F (-42 °C)

Boiling point/boiling range : > 365 °F (> 185 °C)

(1,013 hPa)

Flash point : 345 °F (174 °C)

Method: closed 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 : No data available

Density : 0.976 g/cm³ (68 °F (20 °C))

Solubility(ies) : No data available

Partition coefficient: n-

octanol/water

No data available

Ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : 36.2 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 : Stable under normal conditions.

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

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

Method: Calculation method

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

Method: Calculation method

Components:

Proprietary phosphorodithiotic acid ester:

Acute oral toxicity : LD50 (Rat): 11,300 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Remarks: No adverse effect has been observed in acute tox-

icity tests.

Acute dermal toxicity : Remarks: No adverse effect has been observed in acute tox-

icity tests.

benzotriazole:

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Acute oral toxicity : LD50 (Rat): 560 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1910 mg/m³

Exposure time: 3 h

Test atmosphere: dust/mist

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

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Skin corrosion/irritation

Not classified based on available information.

Components:

Proprietary phosphorodithiotic acid ester:

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

benzotriazole:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Proprietary phosphorodithiotic acid ester:

Remarks: No data available

benzotriazole:

Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Proprietary phosphorodithiotic acid ester:

Routes of exposure: Dermal

Method: OECD Test Guideline 429

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

benzotriazole:

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:

Proprietary phosphorodithiotic acid ester:

Genotoxicity in vitro : Test system: mouse lymphoma cells

Method: OECD 490 Result: negative

benzotriazole:

Genotoxicity in vitro : Test system: Bacteria

Method: OECD Test Guideline 471

Result: negative

Test system: Mammalian-Animal Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Species: Mammalian-Animal

Method: OECD Test Guideline 474

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

egual 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.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

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Repeated dose toxicity

Components:

Proprietary phosphorodithiotic acid ester:

Species: Rat

NOAEL: 1,000 mg/kg **Application Route: Oral**

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50: 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other : LC50: 100 mg/l

aquatic invertebrates

Exposure time: 48 h

Components:

Proprietary phosphorodithiotic acid ester:

Toxicity to fish LL50 (Oncorhynchus mykiss (rainbow trout)): > 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 : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

benzotriazole:

Toxicity to fish LC50 (Danio rerio (zebra fish)): 180 mg/l

Exposure time: 96 h

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aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 15.8 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 75 mg/l

Exposure time: 72 h

EC10 (Desmodesmus subspicatus (green algae)): 1.18 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC10 (Daphnia galeata (Water flea)): 0.97 mg/l

Exposure time: 21 Days

Persistence and degradability

Components:

Proprietary phosphorodithiotic acid ester:

Biodegradability Result: Not readily biodegradable.

> Biodegradation: 12.1 % Exposure time: 28 d

Method: OECD Test Guideline 301B

benzotriazole:

Biodegradability Result: Not readily biodegradable.

> Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

Proprietary phosphorodithiotic acid ester:

Partition coefficient: nlog Pow: 6.5

Method: OECD Test Guideline 117 octanol/water

GLP: yes

benzotriazole:

Bioaccumulation : Bioconcentration factor (BCF): 4.14

Partition coefficient: n-

octanol/water

: log Pow: 1.34

Mobility in soil

No data available

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Other adverse effects

Product:

Additional ecological infor-

mation

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

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 classi-

fied 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

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

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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

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

benzotriazole	95-14-7	>= 1 - < 5
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Massachusetts Right To Know

benzotriazole 95-14-7

Pennsylvania Right To Know

Proprietary phosphorodithiotic acid ester	Trade Secret	>= 30 - < 50
Proprietary phosphorus compound	Trade Secret	> 1
Proprietary glycerides	Trade Secret	> 1
Proprietary fatty acid compound	Trade secret	> 1
Proprietary antioxidant	Trade Secret	> 1
Proprietary sulfur hydrocarbon	Trade Secret	> 1

Pennsylvania Right To Know

Proprietary phosphorodithiotic acid ester	Trade Secret
Proprietary phosphorus compound	Trade Secret
Proprietary glycerides	Trade Secret
Proprietary fatty acid compound	Trade secret
Proprietary antioxidant	Trade Secret
Proprietary sulfur hydrocarbon	Trade Secret

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.

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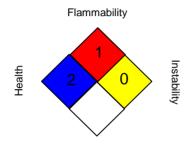


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SECTION 16. OTHER INFORMATION

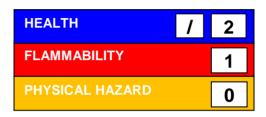
Further information

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.

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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.