

SAFETY DATA SHEET

ADDITIN RC 3038



Version Revision Date: SDS Number: Date of previous issue: 11/29/2017
2.0 12/05/2020 103000010473 Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : ADDITIN RC 3038
Material number : 04983424
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 : Category 2
Eye irritation : Category 2A

GHS label elements

Hazard pictograms : 

Signal Word : Warning
Hazard Statements : Causes skin irritation.
 Causes serious eye irritation.

Precautionary Statements : **Prevention:**
 Wash skin thoroughly after handling.
 Wear protective gloves/ eye protection/ face protection.
Response:

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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 occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.

Hazard Not Otherwise Classified (HNOC)

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	>= 70 - < 90
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; Baseoil — unspecified	72623-86-0	>= 1 - < 5

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 safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Get medical attention if symptoms occur.
If unconscious, place in recovery position and get medical attention immediately.
Loosen tight clothing such as a collar, tie, belt or waistband.
If not breathing, give artificial respiration.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
Get medical attention immediately if irritation develops and

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- persists.
Remove contaminated clothing and shoes.
Wash contaminated clothing before reuse.
- 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.
Continue to rinse for at least 10 minutes.
Chemical burns must be treated promptly by a physician.
- If swallowed : Get medical attention immediately.
Rinse mouth with water.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Give small amounts of water to drink.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Chemical burns must be treated promptly by a physician.
Never give anything by mouth to an unconscious person.
If unconscious, place in recovery position and get medical attention immediately.
Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

- Symptoms : Skin: Causes irritation with symptoms of reddening, itching, and swelling.
Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
- Effects : Causes skin irritation.
Causes serious eye irritation.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.
- Notes to physician : No special actions required.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
In case of fire, use water spray (fog), foam or dry chemical.
- Specific hazards during fire : Do not allow run-off from fire fighting to enter drains or water
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- fighting courses.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Oxides of phosphorus
Sulfur oxides
Metal oxides
- Carbon dioxide (CO₂)
Carbon monoxide
Oxides of phosphorus
Sulfur oxides
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.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Exposure to decomposition products may be a hazard to health.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
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.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in 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 spilled material or wash water to enter sewers, surface waters, or groundwater systems.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid exposure - obtain special instructions before use.
Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation/personal protection.
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 containers sealed until ready for 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.
- 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 ³	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA P0
		TWA (Mist)	5 mg/m ³	NIOSH REL

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		ST (Mist)	10 mg/m3	NIOSH REL
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified	72623-86-0	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

Engineering measures : 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.
If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist.

Hand protection

Material : Nitrile rubber
Wearing time : <= 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear safety glasses with side shields or goggles.
Faceshield may be necessary in operations with splash potential but cannot be used in place of chemical 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state : liquid

Color : yellow

Odor : characteristic

Odor Threshold : No data available

pH : Not applicable

Melting point/range : 10 °F (-12 °C)

Boiling point/boiling range : > 248 °F (> 120 °C)
(1,013 hPa)

Flash point : > 302 °F (150 °C)
Method: DIN ISO 2592

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 : 1.12 g/cm³ (68 °F (20 °C))

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : log Pow: 8.87 (20 °C)
Method: QSAR

Ignition temperature : 504 °F (262 °C)
Method: Regulation (EC) No. 440/2008, Annex, A.15

Decomposition temperature : 302 °F (150 °C)

Viscosity
Viscosity, kinematic : 100 mm²/s (104 °F (40 °C))

Explosive properties : No data available

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Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

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 : Spontaneous decomposition may start at 150°C.
After prolonged heating, slow decomposition may start at above 80°C.
Formation of alkylmercaptans, dialkylsulphides, traces of hydrogen sulphide possible.

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: 3,540 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

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Distillates (petroleum), hydrotreated light naphthenic:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product
- 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
GLP: No information available.
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

Distillates (petroleum), hydrotreated light paraffinic:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: Test results on an analogous product
- 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
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Test results on an analogous product
- 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; Baseoil — unspecified:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
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Method: OECD Test Guideline 401
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

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
GLP: No information available.
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Dosage caused no mortality
Test results on an analogous product

Skin corrosion/irritation

Causes skin irritation.

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:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes
Remarks: Test results on an analogous product

Distillates (petroleum), hydrotreated light paraffinic:

Species: Rabbit
Method: Draize Test
Result: No skin irritation
GLP: yes
Remarks: Test results on an analogous product

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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes
Remarks: Test results on an analogous product

Serious eye damage/eye irritation

Causes serious eye irritation.

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
GLP: yes
Remarks: Test results on an analogous product

Distillates (petroleum), hydrotreated light paraffinic:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes
Remarks: Test results on an analogous product

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
GLP: yes
Remarks: Test results on an analogous product

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

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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

Distillates (petroleum), hydrotreated light naphthenic:

Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.
GLP: yes

Distillates (petroleum), hydrotreated light paraffinic:

Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.
GLP: yes
Remarks: Test results on an analogous product

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.
GLP: yes
Remarks: Test results on an analogous product

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)

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Method: OECD Test Guideline 474
Result: negative
GLP: yes

Distillates (petroleum), hydrotreated light naphthenic:

Genotoxicity in vitro : Test Type: Ames test
Test system: TA98
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: equivocal
GLP: No information available.
Remarks: Positive and negative results

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: no

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: equivocal
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

Distillates (petroleum), hydrotreated light paraffinic:

Genotoxicity in vitro : Test Type: Ames test
Test system: TA98
Metabolic activation: with metabolic activation
Method: OECD Test Guideline 471
Result: Conflicting results have been seen in different studies.
Remarks: In analogy to test results for similarly composed products.

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473

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Result: negative
GLP: no
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal
Method: OECD Test Guideline 474
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Genotoxicity in vitro : Test Type: Ames test
Test system: TA98
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: equivocal
GLP: No information available.
Remarks: Positive and negative results

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: no
Remarks: Test results on an analogous product

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: equivocal
GLP: yes
Remarks: Positive and negative results

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Application Route: Intraperitoneal
Method: OECD Test Guideline 474

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Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

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:

Species: Mouse, (female)
Application Route: Dermal
Exposure time: 78 weeks
Method: OECD Test Guideline 451
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

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 naphthenic:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 1000 milligram per kilogram

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General Toxicity Parent: NOAEL: \geq 1,000 mg/kg body weight
Fertility: NOAEL: \geq 1,000 mg/kg body weight
Early Embryonic Development: NOAEL: \geq 1,000 mg/kg body weight
Method: OECD Test Guideline 421
Result: No effects on fertility and early embryonic development were detected.
GLP: yes
Remarks: Test results on an analogous product

Distillates (petroleum), hydrotreated light paraffinic:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 1000 milligram per kilogram
General Toxicity Parent: NOAEL: \geq 1,000 mg/kg body weight
Fertility: NOAEL: \geq 1,000 mg/kg body weight
Method: OECD Test Guideline 421
Result: No effects on fertility and early embryonic development were detected.
GLP: yes
Remarks: Test results on an analogous product

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat, female
Application Route: Dermal
Dose: 125 - 500 - 2000 milligram per kilogram
General Toxicity Maternal: LOAEL: 125 mg/kg body weight
Teratogenicity: NOAEL: \geq 2,000 mg/kg body weight
Developmental Toxicity: NOAEL: \geq 2,000 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative
GLP: yes
Remarks: Test results on an analogous product

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Oral
Dose: 1000 milligram per kilogram
General Toxicity Parent: NOAEL: \geq 1,000 mg/kg body weight
Fertility: NOAEL: \geq 1,000 mg/kg body weight
Early Embryonic Development: NOAEL: \geq 1,000 mg/kg body weight
Method: OECD Test Guideline 421
Result: No effects on fertility and early embryonic development were detected.
GLP: yes

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Remarks: Test results on an analogous product

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; Baseoil — unspecified:

Assessment: May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Species: Rat, male

LOAEL: 125 mg/kg

Application Route: Oral

Exposure time: 90 d

Number of exposures: daily

Dose: 125 - 500 mg/kg bw/d

Method: OECD Test Guideline 408

GLP: No information available.

Remarks: Test results on an analogous product

Distillates (petroleum), hydrotreated light paraffinic:

Species: Rat, male

LOAEL: 125 mg/kg

Application Route: Oral

Exposure time: 90 d

Dose: 125 - 500 mg/kg bw/d

Method: OECD Test Guideline 408

GLP: No information available.

Remarks: Subchronic toxicity

Test results on an analogous product

Species: Rat, male and female

NOAEL: > 980 mg/m³

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Application Route: Inhalation
Test atmosphere: dust/mist
Exposure time: 28 d
Dose: 50 - 220 - 980 mg/m³
Method: OECD Test Guideline 412
GLP: No information available.
Remarks: Subacute toxicity
Test results on an analogous product

Species: Rabbit, male and female
NOAEL: 1,000 mg/kg
Application Route: Skin contact
Exposure time: 28 d
Dose: 200 - 1000 - 2000 mg/kg bw/d
Method: OECD Test Guideline 410
GLP: yes
Remarks: Subacute toxicity
Test results on an analogous product

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Species: Rat, male
LOAEL: 125 mg/kg
Application Route: Oral
Exposure time: 90 d
Number of exposures: daily
Dose: 125 - 500 mg/kg bw/d
Method: OECD Test Guideline 408
GLP: No information available.
Remarks: Test results on an analogous product

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; Baseoil — unspecified:

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.

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Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

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

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 : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: water extractable fraction

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Toxicity to algae : EL50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No information available.
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: water extractable fraction
Test results on an analogous product

NOELR (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No information available.
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (*Daphnia magna* (Water flea)): 10 mg/l
End point: Reproduction
Exposure time: 21 d
Analytical monitoring: No information available.
Method: OECD Test Guideline 211
GLP: yes
Remarks: water extractable fraction

Distillates (petroleum), hydrotreated light paraffinic:

Toxicity to fish : LL50 (*Pimephales promelas* (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Analytical monitoring: no
Method: OECD Test Guideline 202
GLP: no
Remarks: water extractable fraction

Toxicity to algae : EL50 (*Pseudokirchneriella subcapitata* (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: no
Method: OECD Test Guideline 201

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GLP: no
Remarks: water extractable fraction

NOEC (Pseudokirchneriella subcapitata (microalgae)): >= 100 mg/l

End point: Growth rate
Exposure time: 72 h
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 10 mg/l
End point: Reproduction
Exposure time: 21 d
Analytical monitoring: no
Method: OECD Test Guideline 211
GLP: yes
Remarks: water extractable fraction

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Analytical monitoring: yes
Method: OECD Test Guideline 202
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No information available.
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: water extractable fraction
Test results on an analogous product

NOELR (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l

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End point: Growth rate
Exposure time: 72 h
Analytical monitoring: No information available.
Method: OECD Test Guideline 201
GLP: No information available.
Remarks: water extractable fraction
Test results on an analogous product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 10 mg/l
End point: Reproduction
Exposure time: 21 d
Analytical monitoring: No information available.
Method: OECD Test Guideline 211
GLP: yes
Remarks: water extractable fraction
Test results on an analogous product

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.

Distillates (petroleum), hydrotreated light paraffinic:

Biodegradability : 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; Baseoil — unspecified:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

No data available

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Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

RCRA - Resource Conservation and Recovery Authorization 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 precautions 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.
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

DOT

UN/ID/NA 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

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Marine pollutant

: yes



Further information for transport

: 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.

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)

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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.

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

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	70 - 90 %

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; Baseoil — unspecified	72623-86-0	>= 1 - < 5

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Distillates (petroleum), solvent-refined light naphthenic 64741-97-5 $\geq 0.1 - < 1$

Massachusetts Right To Know

Distillates (petroleum), hydrotreated light naphthenic 64742-53-6

Distillates (petroleum), hydrotreated light paraffinic 64742-55-8
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified 72623-86-0

Pennsylvania Right To Know

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts 85940-28-9 $\geq 70 - < 90$

Distillates (petroleum), hydrotreated light naphthenic 64742-53-6 $\geq 5 - < 10$

Distillates (petroleum), hydrotreated light paraffinic 64742-55-8 $\geq 1 - < 5$
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified 72623-86-0 $\geq 1 - < 5$

Pennsylvania Right To Know

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts 85940-28-9

Distillates (petroleum), hydrotreated light naphthenic 64742-53-6

Distillates (petroleum), hydrotreated light paraffinic 64742-55-8
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil — unspecified 72623-86-0

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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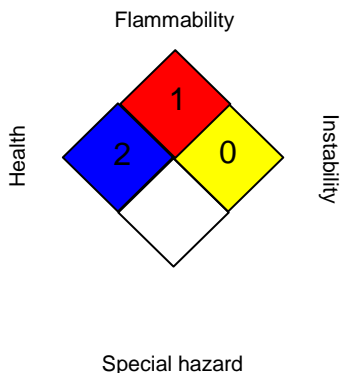
SDS Number:
103000010473

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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 : 12/05/2020

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.