

# SAFETY DATA SHEET

## ADDITIN RC 9420(M 94.005)



Version	Revision Date:	SDS Number:	Date of last issue: 12/05/2024
3.0	01/03/2025	203000020208	Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name : ADDITIN RC 9420(M 94.005)

Product code : 000000000062540823

#### 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 : Lubricant assistants

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### SECTION 2. HAZARDS IDENTIFICATION

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

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitization : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

Specific target organ toxicity : Category 1 (lymph node)  
- repeated exposure

Specific target organ toxicity : Category 2 (Liver)  
- repeated exposure

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Aspiration hazard : Category 1

### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Suspected of damaging the unborn child.  
Causes damage to organs (lymph node) through prolonged or repeated exposure.  
May cause damage to organs (Liver) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe mist or vapors.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
IF ON SKIN: Wash with plenty of soap and water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
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.  
IF exposed or concerned: Get medical advice/ attention.  
Do NOT induce vomiting.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

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### Storage:

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Polysulfides, di-tert-Bu	68937-96-2	$\geq 30 - < 50$
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	$\geq 10 - < 20$
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	$\geq 10 - < 20$
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	$\geq 5 - < 10$
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	$\geq 1 - < 5$
Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol	56748-97-1	$\geq 1 - < 5$
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	$\geq 1 - < 5$
(tetrapropenyl)succinic acid	27859-58-1	$\geq 1 - < 5$
benzotriazole	95-14-7	$\geq 1 - < 5$

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.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.

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

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attention immediately.  
Maintain open airway.  
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

- In case of skin contact : Wash off with soap and water.  
Remove contaminated clothing and shoes.  
Continue to rinse for at least 20 minutes.  
Get medical attention if symptoms occur.  
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, if present and easy to do. Continue rinsing.  
Chemical burns must be treated promptly by a physician.
- If swallowed : Get medical attention immediately.  
Rinse mouth with water.  
Do not induce vomiting unless directed to do by medical personnel.  
Aspiration hazard if swallowed - can enter lungs and cause damage.  
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.  
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.

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

- Symptoms : May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.  
Ingestion and/or vomiting may cause aspiration into the lungs resulting in chemical pneumonitis (inflammation of the lungs).  
Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.  
Skin: Causes irritation with symptoms of reddening, itching, and swelling.  
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.  
Adverse symptoms sometimes include the following:  
Effects on fertility.  
Effects on fetal development.

- Effects : May be fatal if swallowed and enters airways.

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Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
Suspected of damaging the unborn child.  
Causes damage to organs through prolonged or repeated exposure.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

Notes to physician : Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon 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.

Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
phosphorus oxide (P<sub>2</sub>O<sub>5</sub>)  
Sulfur oxides

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.  
Put on appropriate personal protection equipment.  
Do not touch or walk through spilled material.  
Evacuate unnecessary personnel.  
Keep unnecessary and unprotected personnel from entering.  
Provide adequate ventilation.  
Do not breathe vapors, aerosols.

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- 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.

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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Remove contaminated clothing and protective equipment before 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.  
Avoid inhalation, ingestion and contact with skin and eyes.  
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.  
Use only with adequate ventilation/personal protection.  
Avoid exposure during pregnancy.
- 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.

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Use appropriate container to avoid environmental contamination.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.

Further information on storage stability : Stable under recommended storage conditions.

### 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 (Inhalable particulate matter)	5 mg/m3	ACGIH
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z-1

**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.  
NIOSH approved, air-purifying organic vapor respirator.

**Hand protection**

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Material	:	Nitrile rubber
Wearing time	:	< 60 min
Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations
Eye protection	:	Tightly fitting safety goggles
Skin and body protection	:	Wear suitable protective clothing. Chemical resistant apron 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	:	No data available
Physical state	:	liquid (68 °F / 20 °C)
Color	:	yellow
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	Not applicable substance/mixture is non-soluble (in water)
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 203 °F / > 95 °C
		Method: ISO 2719



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Evaporation rate	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	ca. 1 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	10.29 mm <sup>2</sup> /s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	No specific data.

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Hazardous decomposition products : No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Product:

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

#### Components:

##### Polysulfides, di-tert-Bu:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity

##### 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 substance/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 substance/product.

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

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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 substance/product.

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

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

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: Yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **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 substance/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 substance/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:**

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 substance/product.

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l

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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 substance/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 substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Acute oral toxicity : LD50 (Rat): > 300 mg/kg  
  
Acute dermal toxicity : LD50: 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Distillates (petroleum), solvent-refined heavy 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 substance/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 substance/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

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Remarks: Dosage caused no mortality  
Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Acute oral toxicity : LD50 (Rat, male): 2,700 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes

LD50 (Rat, female): 2,100 mg/kg  
Method: OECD Test Guideline 401  
GLP: Yes

### **benzotriazole:**

Acute oral toxicity : LD50 (Rat, male and female): ca. 500 mg/kg  
Method: OECD Test Guideline 423  
GLP: Yes

### **Skin corrosion/irritation**

Causes skin irritation.

### **Components:**

#### **Polysulfides, di-tert-Bu:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation  
GLP : Yes

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

#### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Species : Rabbit  
Method : equivalent or similar to OECD Guideline 404  
Result : Irritating to skin.  
GLP : No

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

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation

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GLP : Yes  
Remarks : Test results on an analogous substance/product.

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Species : reconstructed human epidermis (RhE)  
Assessment : Irritating to skin.  
Method : Regulation (EC) No. 440/2008, Annex, B.46  
Result : Skin irritation

### **Distillates (petroleum), solvent-refined heavy naphthenic:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Irritating to skin.  
GLP : Yes

### **benzotriazole:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : No information available.

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

Causes serious eye damage.

### **Components:**

#### **Polysulfides, di-tert-Bu:**

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

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GLP : Yes

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

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Species : Rabbit  
Result : Irritating to eyes.  
Method : equivalent or similar to OECD Guideline 405  
GLP : No

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

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

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

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Species : Bovine cornea  
Result : Irreversible effects on the eye  
Assessment : Causes severe burns.  
Method : Regulation (EC) No. 440/2008, Annex, B.47

### **Distillates (petroleum), solvent-refined heavy naphthenic:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : Yes  
Remarks : Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Species : Rabbit

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Result	:	Risk of serious damage to eyes.
Exposure time	:	21 d
Method	:	Draize Test
GLP	:	No information available.

### **benzotriazole:**

Species	:	Rabbit
Result	:	Irritating to eyes.
Method	:	OECD Test Guideline 405
GLP	:	No information available.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified due to lack of data.

### **Components:**

#### **Polysulfides, di-tert-Bu:**

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	The product is a skin sensitiser, sub-category 1B.
GLP	:	Yes

#### **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

#### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	equivalent or similar to OECD Guideline 406
Result	:	Did not cause sensitization on laboratory animals.
GLP	:	No



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### **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 substance/product.

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

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 substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitization on laboratory animals.

### **Distillates (petroleum), solvent-refined heavy 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
Remarks	: Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

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

### **benzotriazole:**

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406

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Result : Did not cause sensitization on laboratory animals.  
GLP : Yes

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### Polysulfides, di-tert-Bu:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: Yes

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: Yes

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

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male)  
Cell type: Bone marrow  
Application Route: Oral  
Dose: 2000 mg/kg bw  
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: Information given is based on data obtained from similar substances.

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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: Information given is based on data obtained from similar substances.

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: Information given is based on data obtained from similar substances.

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 substance/product.

### **Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium, Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: Yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: Yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster lung cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: Yes

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**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  
Result: negative  
GLP: No  
Remarks: Test results on an analogous substance/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 substance/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 substance/product.

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

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: Information given is based on data obtained from similar substances.

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

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GLP: No

Remarks: Information given is based on data obtained from similar substances.

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: Information given is based on data obtained from similar substances.

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 substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: TA1535  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative

### **Distillates (petroleum), solvent-refined heavy 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: Information given is based on data obtained from similar substances.

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: Information given is based on data obtained from similar substances.

Test Type: In vitro mammalian cell gene mutation test

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Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: equivocal  
GLP: Yes  
Remarks: Information given is based on data obtained from similar substances.

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 substance/product.

### **(tetrapropenyl)succinic acid:**

Genotoxicity in vitro : 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 490  
Result: negative  
GLP: Yes

Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: Yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No

### **benzotriazole:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: Yes

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells

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Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: Yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: NMRI  
Cell type: Bone marrow  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative  
GLP: Yes

### **Carcinogenicity**

Not classified due to lack of data.

### **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 substance/product.

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

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

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

#### **Distillates (petroleum), solvent-refined heavy naphthenic:**

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

#### **benzotriazole:**

Species : Rat, male and female  
Application Route : Oral

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Exposure time : 78 weeks  
Dose : 6700 - 12100 ppm  
NOAEL : 12,100 ppm  
Method : OECD Test Guideline 451  
Result : negative  
GLP : No information available.

**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

Suspected of damaging the unborn child.

### Components:

#### Polysulfides, di-tert-Bu:

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 25 - 75 - 150 milligram per kilogram  
General Toxicity Parent: NOAEL: 75 mg/kg bw/day  
Fertility: NOAEL: 150 mg/kg bw/day  
Early Embryonic Development: NOAEL: 75 mg/kg bw/day  
Method: OECD Test Guideline 421  
Result: Animal testing did not show any effects on fertility.  
GLP: Yes

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



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**Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Effects on fertility : Test Type: Screening test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 10 - 30 - 100 mg/kg bw/day  
General Toxicity Parent: LOAEL: 10 mg/kg bw/day  
Fertility: NOAEL: 100 mg/kg bw/day  
Early Embryonic Development: NOAEL: 100 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes

**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 substance/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 substance/product.

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

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 bw/day  
Fertility: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Early Embryonic Development: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Method: OECD Test Guideline 421

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Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes  
Remarks: Test results on an analogous substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Oral  
General Toxicity Parent: NOAEL: 300 mg/kg body weight

Effects on fetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight

### **Distillates (petroleum), solvent-refined heavy naphthenic:**

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 bw/day  
Fertility: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Early Embryonic Development: NOAEL:  $\geq 1,000$  mg/kg bw/day  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes  
Remarks: Test results on an analogous substance/product.

### **(tetrapropenyl)succinic acid:**

Effects on fertility : Test Type: Screening test  
Species: Rat, male and female  
Application Route: Oral  
Dose: 16 - 40 - 100 mg/kg bw/day  
General Toxicity Parent: NOAEL:  $> 100$  mg/kg body weight  
Early Embryonic Development: NOAEL:  $> 100$  mg/kg body weight  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Oral  
Dose: 0 - 40 - 100 - 250 mg/kg bw/day

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General Toxicity Maternal: NOAEL: 100 mg/kg bw/day  
Developmental Toxicity: NOAEL: 100 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 100 mg/kg bw/day  
Method: OECD Test Guideline 414  
GLP: Yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

### **benzotriazole:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 12.5 - 50 - 200 mg/kg bw/day  
General Toxicity Parent: NOAEL:  $\geq$  200 mg/kg bw/day  
Fertility: NOAEL:  $\geq$  200 mg/kg bw/day  
Early Embryonic Development: NOAEL:  $\geq$  200 mg/kg bw/day  
Method: OECD Test Guideline 421  
Result: No effects on fertility and early embryonic development were detected.  
GLP: Yes

Effects on fetal development : Test Type: Pre-natal  
Species: Rat, female  
Application Route: Oral  
Dose: 36 - 120 - 330 milligram per kilogram  
General Toxicity Maternal: NOAEL: 36 mg/kg body weight  
Developmental Toxicity: NOAEL: 120 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
GLP: Yes

### **STOT-single exposure**

May cause respiratory irritation.

### **Components:**

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

Assessment : May cause respiratory irritation.

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

Assessment : May cause respiratory irritation.

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

Assessment : May cause respiratory irritation.

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### **Distillates (petroleum), solvent-refined heavy naphthenic:**

Assessment : May cause respiratory irritation.

### **STOT-repeated exposure**

Causes damage to organs (lymph node) through prolonged or repeated exposure.

May cause damage to organs (Liver) through prolonged or repeated exposure.

### **Components:**

#### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Target Organs : lymph node  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

#### **(tetrapropenyl)succinic acid:**

Target Organs : Liver  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **Repeated dose toxicity**

### **Components:**

#### **Polysulfides, di-tert-Bu:**

Species : Rat, male and female  
NOAEL : 100 mg/kg  
LOAEL : 300 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 33 - 100 - 300 mg/kg bw/day  
Method : OECD Test Guideline 407  
GLP : Yes  
Remarks : Subacute toxicity

#### **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 substance/product.

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### Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:

Species	: Rat, male and female
NOAEL	: 4 mg/kg
LOAEL	: 20 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Number of exposures	: daily
Dose	: 0 - 1 - 4 - 20 mg/kg bw/day
Method	: OECD Test Guideline 408
GLP	: Yes
Remarks	: Subchronic toxicity

Species	: Rat, male and female
LOAEL	: 10 mg/kg
Application Route	: Oral
Number of exposures	: daily
Dose	: 0 - 10 - 30 - 100 mg/kg bw/day
Method	: OECD Test Guideline 422
GLP	: Yes

### 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 substance/product.

Species	: Rat, male and female
NOAEL	: > 980 mg/m <sup>3</sup>
Application Route	: Inhalation
Test atmosphere	: dust/mist
Exposure time	: 28 d
Dose	: 50 - 220 - 980 mg/m <sup>3</sup>
Method	: OECD Test Guideline 412
GLP	: No information available.
Remarks	: Subacute toxicity Test results on an analogous substance/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

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GLP : Yes  
Remarks : Subacute toxicity  
Test results on an analogous substance/product.

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

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 substance/product.

### Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:

Species : Rat  
NOAEL : 300 mg/kg  
Application Route : Oral

### Distillates (petroleum), solvent-refined heavy 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 : Subchronic toxicity  
Test results on an analogous substance/product.

### (tetrapropenyl)succinic acid:

Species : Rat, male and female  
NOAEL : 100 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 16 - 40 - 100 mg/kg bw/day  
Method : OECD Test Guideline 407  
GLP : Yes  
Remarks : Subacute toxicity

Species : Rat, male and female  
NOAEL : 50 mg/kg  
LOAEL : 100 mg/kg

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Application Route : Oral  
Exposure time : 90 d  
Number of exposures : daily  
Dose : 0 - 50 - 100 - 200 mg/kg bw/day  
Method : OECD Test Guideline 408  
GLP : Yes  
Remarks : Subchronic toxicity

### **benzotriazole:**

Species : Rat, male and female  
LOAEL : 6700 ppm  
Application Route : Oral  
Exposure time : 78 Weeks  
Number of exposures : daily  
Dose : 6700 - 12100 ppm  
Method : OECD Test Guideline 451  
GLP : No information available.  
Remarks : Chronic toxicity

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

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

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

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

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

### **Further information**

#### **Product:**

Remarks : No data available

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **Polysulfides, di-tert-Bu:**

Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 63 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: Yes Remarks: water extractable fraction
Toxicity to algae/aquatic plants	: EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: Yes Remarks: water extractable fraction

##### **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
Toxicity to algae/aquatic plants	: 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 substance/product.



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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 substance/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

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 203  
GLP: No  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 202  
GLP: No  
Remarks: Fresh water  
nominal concentration

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

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EC10 (Raphidocelis subcapitata (freshwater green alga)): 4.9 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: Yes

Method: OECD Test Guideline 201

GLP: Yes

Remarks: Fresh water

nominal concentration

NOEC (Raphidocelis subcapitata (freshwater green alga)): 3.2 mg/l

End point: Growth rate

Exposure time: 72 h

Test Type: static test

Analytical monitoring: Yes

Method: OECD Test Guideline 201

GLP: Yes

Remarks: Fresh water

nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :

NOEC (Daphnia magna (Water flea)): > 10 mg/l

End point: Reproduction

Exposure time: 22 d

Test Type: semi-static test

Analytical monitoring: Yes

Method: OECD Test Guideline 211

GLP: Yes

Remarks: Fresh water

nominal concentration

Toxicity to microorganisms :

EC20 (activated sludge): > 100 mg/l

End point: Respiration inhibition

Exposure time: 3 h

Test Type: static test

Analytical monitoring: No

Method: OECD Test Guideline 209

GLP: No

Remarks: Fresh water

nominal concentration

EC50 (activated sludge): > 100 mg/l

End point: Respiration inhibition

Exposure time: 3 h

Test Type: static test

Analytical monitoring: No

Method: OECD Test Guideline 209

GLP: No

Remarks: Fresh water

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nominal concentration

### 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/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 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

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:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Analytical monitoring: Yes  
Method: OECD Test Guideline 203

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GLP: Yes  
Remarks: water extractable fraction  
Test results on an analogous substance/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 substance/product.

Toxicity to algae/aquatic plants : 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 substance/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 substance/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 substance/product.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 26.3 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

NOEC (Oncorhynchus mykiss (rainbow trout)): 17.3 mg/l  
Exposure time: 96 h

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Method: OECD Test Guideline 203

Lowest Observed Effect Concentration (Oncorhynchus mykiss (rainbow trout)): 39.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 84.91 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 203

NOEC (Daphnia magna (Water flea)): 50 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 203

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 59.6 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 59.6 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (adapted and activated sludge micro-organism): 1,000 mg/l  
Exposure time: 3 h  
Test Type: Cell multiplication inhibition test  
Method: OECD Test Guideline 209

### Distillates (petroleum), solvent-refined heavy 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  
Test results on an analogous substance/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 substance/product.

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Toxicity to algae/aquatic plants : 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 substance/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 substance/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 substance/product.

### (tetrapropenyl)succinic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 203  
GLP: Yes  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: Yes  
Remarks: Fresh water

Toxicity to algae/aquatic : EL50 (Raphidocelis subcapitata (freshwater green alga)): >

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plants

100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
water extractable fraction

NOELR (Raphidocelis subcapitata (freshwater green alga)):  
33 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
water extractable fraction

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

### **benzotriazole:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 180 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: No  
Method: OECD Test Guideline 203  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia galeata (Water flea)): 15.8 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 202  
GLP: No information available.  
Remarks: Fresh water  
nominal concentration

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Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 75 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

NOEC (Raphidocelis subcapitata (freshwater green alga)): 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 201  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

EC10 (Desmodesmus subspicatus (green algae)): 1.18 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 201  
GLP: No information available.  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia galeata (Water flea)): 0.97 mg/l  
End point: Reproduction  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: Yes  
Method: OECD Test Guideline 211  
GLP: No information available.  
Remarks: Fresh water  
nominal concentration

Toxicity to microorganisms : EC50 (activated sludge): 940 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes



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Remarks: Fresh water  
nominal concentration

EC10 (activated sludge): < 10 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Analytical monitoring: No  
Method: OECD Test Guideline 209  
GLP: Yes  
Remarks: Fresh water  
nominal concentration

Toxicity to soil dwelling organisms : Test Type: Reproduction Test  
EC10 (Eisenia andrei (red worm)): 19.1 mg/kg  
Exposure time: 56 d  
End point: Reproduction  
Method: OECD Test Guideline 222  
GLP: Yes

### Persistence and degradability

#### Components:

##### **Polysulfides, di-tert-Bu:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 13 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

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

Biodegradability : Result: Not readily biodegradable.

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
CO<sub>2</sub>  
Result: Not readily biodegradable.  
Biodegradation: 12 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: No

Stability in water : Hydrolysis: < 10 %  
Method: OECD Test Guideline 111  
GLP: No  
Remarks: Hydrolyzes slowly on contact with water.

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Hydrolysis: < 10 %  
Method: OECD Test Guideline 111  
GLP: No  
Remarks: Hydrolyzes slowly on contact with water.

### **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:**

Biodegradability : Result: Not readily biodegradable.

### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Biodegradability : Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: Yes

### **Distillates (petroleum), solvent-refined heavy naphthenic:**

Biodegradability : Result: Not readily biodegradable.

### **(tetrapropenyl)succinic acid:**

Biodegradability : aerobic  
Inoculum: activated sludge, adapted  
Concentration: 100 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 18.3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: Yes

### **benzotriazole:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: Yes

Stability in water : Hydrolysis: 0.8 %(5 d)  
Method: OECD Test Guideline 111

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GLP: Yes  
Remarks: Stable

Hydrolysis: 0 %(5 d)  
Method: OECD Test Guideline 111  
GLP: Yes  
Remarks: Stable

Hydrolysis: 0 %(5 d)  
Method: OECD Test Guideline 111  
GLP: Yes  
Remarks: Stable

### Bioaccumulative potential

#### Components:

##### **Polysulfides, di-tert-Bu:**

Partition coefficient: n-octanol/water : log Pow: 5.6 (68 °F / 20 °C)  
Method: OECD Test Guideline 117  
GLP: Yes

##### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Bioaccumulation : Remarks: Does not significantly accumulate in organisms.

Partition coefficient: n-octanol/water : Remarks: No specific, relevant data available for assessment.

##### **Butanedioic acid, 2-(tetrapropenyl)-, ester with 1,2-propanediol:**

Partition coefficient: n-octanol/water : log Pow: 1.84 (77 °F / 25 °C)  
Method: OECD Test Guideline 117  
GLP: Yes

##### **(tetrapropenyl)succinic acid:**

Partition coefficient: n-octanol/water : log Pow: 4.76  
Method: OECD Test Guideline 107  
GLP: Yes

##### **benzotriazole:**

Bioaccumulation : Bioconcentration factor (BCF): 4.15  
Method: Estimated value

Partition coefficient: n-octanol/water : log Pow: 1.34 (70 °F / 21 °C)  
pH: 5.7  
Method: OECD Test Guideline 107

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### Mobility in soil

No data available

### Other adverse effects

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

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)

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 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.

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## SECTION 14. TRANSPORT INFORMATION

### 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.

### Domestic regulation

#### 49 CFR

Not regulated as a dangerous good

### Hazard and Handling Notes.

Not dangerous cargo

Risk of serious damage to eyes

Irritating to skin.

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Keep separated from foodstuffs

### 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** : Respiratory or skin sensitization  
Reproductive toxicity  
Aspiration hazard  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**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 light naphthenic	64742-53-6	10 - 20
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	5 - 10
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	1 - 5
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	1 - 5
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	> 1
benzotriazole	95-14-7	>= 1

##### Pennsylvania Right To Know

Polysulfides, di-tert-Bu	68937-96-2	30 - 50
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	10 - 20
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	10 - 20
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	5 - 10
2,5-bis(tert-nonyldithio)-1,3,4-thiadiazole	89347-09-1	> 1
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	1 - 5
Distillates (petroleum), solvent-refined heavy naphthenic	64741-96-4	1 - 5

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Lubricating oils (petroleum), C20-50, hydrotreated	72623-87-1	> 1
neutral oil-based		
diphenylamine	122-39-4	< 0.1

### 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

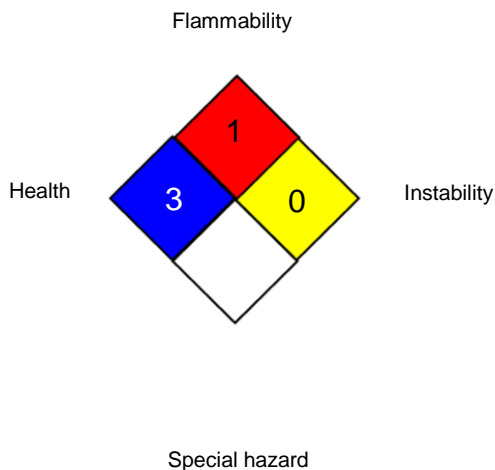
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	*	3
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.

### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

# SAFETY DATA SHEET

## ADDITIN RC 9420(M 94.005)



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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 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 : 01/03/2025

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.