

# SAFETY DATA SHEET

## ADDITIN RC 9317



Version 2.0      Revision Date: 08/18/2022      SDS Number: 203000006342      Date of last issue: 03/11/2021  
Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name : ADDITIN RC 9317  
Product code : 00000000057165581

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS  
(412) 809-1000  
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or  
(703) 527-3887 (Outside U.S.A) and mention CCN12916.  
Lanxess Emergency Phone (800) 410-3063.

#### Recommended use of the chemical and restrictions on use

Recommended use : Additive for lubricants

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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

#### GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : Causes skin irritation.

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Precautionary Statements :  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Suspected of damaging fertility.

**Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing mist or vapors.  
Wash skin thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
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. Immediately call a POISON CENTER/ doctor.  
IF exposed or concerned: Get medical advice/ attention.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

**Storage:**  
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)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	>= 10 - < 20
2,6-di-tert-butylphenol	128-39-2	>= 10 - < 20
Proprietary amine reaction product	Trade Secret	>= 5 - < 10
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	>= 5 - < 10
1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-	91273-04-0	>= 1 - < 5

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Triazole		
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine	110-25-8	>= 1 - < 5
Proprietary benzotriazole amine	Trade Secret	>= 1 - < 5

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

### SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and water.  
Continue to rinse for at least 20 minutes.  
Get medical attention if symptoms appear.  
Wash contaminated clothing before re-use.
- 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 : Rinse mouth with water.  
Do not induce vomiting unless directed to do by medical personnel.  
Get medical attention if symptoms occur.

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

- Symptoms : 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, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.  
Adverse symptoms sometimes include the following:  
Effects on fertility.
- Effects : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Suspected of damaging fertility.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

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- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : None known.
- Specific hazards during fire fighting : Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
- Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Sulfur oxides  
Nitrogen oxides (NO<sub>x</sub>)  
phosphorus oxide (P<sub>2</sub>O<sub>5</sub>)
- Further information : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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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.  
Evacuate personnel to safe areas.  
Keep unnecessary and unprotected personnel from entering.  
Do not touch or walk through spilled material.  
Do not breathe vapors or spray mist.  
Ensure adequate ventilation or exhaust ventilation in the working area.  
Put on appropriate personal protection equipment.  
Provide adequate ventilation.  
Do not breathe vapors, aerosols.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.  
Move containers from spill area.  
Wash spillages into an effluent treatment plant or proceed as follows.  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /
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national regulations (see section 13).  
Dispose of wastes in an approved waste disposal facility.  
Do not allow into the sewerage system, surface waters or groundwater or into the soil.  
Contaminated absorbent material may pose the same hazard as the spilled product.

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- 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.  
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.  
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 container closed when not in use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Empty containers retain residue and can be dangerous.  
Do not reuse container.

### 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), solvent-dewaxed heavy paraffinic	64742-65-0	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

- Engineering measures** : If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the

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exposure limit.

### Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  
The following respirator is recommended if airborne concentrations exceed the appropriate standard/guideline.  
A NIOSH approved air purifying respirator with organic vapor cartridges and particulate prefilter can be used to minimize exposure.

Hand protection  
Material : PVC  
Wearing time : < 60 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles  
If inhalation hazards exist, a full-face respirator may be required instead.

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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid  
Color : brown  
Odor : characteristic  
Odor Threshold : No data available

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pH : Not applicable

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : 277 °F / 136 °C

Evaporation rate : No data available

Self-ignition : No data available

Burning number : 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 : 0.9925 g/cm<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)

    Water solubility : slightly soluble

    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 : 586 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

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product or its ingredients.

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 : No decomposition if stored and applied as directed.

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### SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

#### Information on likely routes of exposure

Inhalation  
Eye contact  
Skin contact  
Ingestion

#### Acute toxicity

Not classified based on available information.

#### Product:

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

Acute inhalation toxicity : Acute toxicity estimate: 75 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

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

#### Components:

##### **Distillates (petroleum), solvent-dewaxed heavy 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): > 5.53 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
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  
Remarks: Test results on an analogous product

### **2,6-di-tert-butylphenol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

### **Proprietary amine reaction product:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality

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

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
GLP: yes  
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

### **1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole:**

Acute oral toxicity : LD50 (Rat, male and female): 2,356 mg/kg  
Method: OECD Test Guideline 401  
GLP: no  
Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

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

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Method: OECD Test Guideline 420

Acute inhalation toxicity : LC50 (Rat, male and female): 1.01 - 1.85 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

### **Proprietary benzotriazole amine:**

Acute oral toxicity : LD50 (Rat): 3,313 mg/kg  
Method: OECD Test Guideline 401

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

### **Skin corrosion/irritation**

Causes skin irritation.

### **Components:**

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

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

#### **2,6-di-tert-butylphenol:**

Result : Irritating to skin.

#### **Proprietary amine reaction product:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Mild skin irritation  
GLP : no

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

#### **1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole:**

Species : Rabbit  
Method : OECD Test Guideline 404

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Result : Causes burns.

### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Irritating to skin.

### **Proprietary benzotriazole amine:**

Species : Rabbit  
Exposure time : 24 h  
Result : Irritating to skin.

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

Causes serious eye damage.

### **Components:**

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

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

#### **2,6-di-tert-butylphenol:**

Species : Rabbit  
Result : No eye irritation

#### **Proprietary amine reaction product:**

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

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

Species : Rabbit  
Result : Irritating to eyes.  
Method : OECD Test Guideline 405

#### **1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole:**

Assessment : Risk of serious damage to eyes.

### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Species : Rabbit  
Result : Risk of serious damage to eyes.

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Method : OECD Test Guideline 405

### Proprietary benzotriazole amine:

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified based on available information.

### Components:

#### Distillates (petroleum), solvent-dewaxed heavy 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

#### Proprietary amine reaction product:

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

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

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

#### 1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole:

Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitization by skin contact.  
GLP : yes  
Remarks : Sensitizing

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**(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Routes of exposure : Dermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

**Proprietary benzotriazole amine:**

Routes of exposure : Dermal  
Species : Guinea pig  
Result : May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: TA98  
Metabolic activation: with metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous product

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: negative  
GLP: yes  
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: positive  
GLP: yes  
Remarks: Test results on an analogous product

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

### Proprietary amine reaction product:

Genotoxicity in vitro : Test Type: Micronucleus test  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

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

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

Test Type: Ames test  
Test system: Escherichia coli  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

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  
Remarks: Test results on an analogous product

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Genotoxicity in vivo : Test Type: dominant lethal test  
Species: Mouse (male)  
Application Route: Oral  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no  
Remarks: Test results on an analogous product

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

Genotoxicity in vitro : Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Genotoxicity in vitro : Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test system: Mammalian-Animal  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Species : Mouse, female  
Application Route : Dermal  
Exposure time : 18 month(s)

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Method : OECD Test Guideline 451  
Result : negative  
GLP : No information available.  
Remarks : Test results on an analogous product

Species : Mouse, male  
Application Route : Dermal  
Exposure time : 24 month(s)  
Method : OECD Test Guideline 453  
Result : positive  
GLP : No information available.  
Remarks : Test results on an analogous product

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

### **2,6-di-tert-butylphenol:**

Remarks : No known significant effects or critical hazards.

**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 fertility.

### **Components:**

#### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0 - 1000 milligram per kilogram  
General Toxicity Parent: NOAEL: >= 1,000 mg/kg body weight  
Fertility: NOAEL: >= 1,000 mg/kg body weight  
Early Embryonic Development: NOAEL: >= 1,000 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: Animal testing did not show any effects on fertility.  
GLP: yes  
Remarks: Test results on an analogous product

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat, female



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Application Route: Dermal  
Dose: 0 - 125 - 500 milligram per kilogram  
General Toxicity Maternal: NOAEL:  $\geq$  2,000 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  2,000 mg/kg body weight  
Developmental Toxicity: NOAEL:  $\geq$  2,000 mg/kg body weight  
Embryo-fetal toxicity.: NOAEL:  $\geq$  2,000 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: No information available.  
Remarks: Test results on an analogous product

### Proprietary amine reaction product:

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Oral  
Dose: 25-75-225 milligram per kilogram  
General Toxicity Parent: NOAEL: 25 mg/kg bw/day  
Fertility: NOEL: 225 mg/kg bw/day  
Method: OECD Test Guideline 422  
Result: Animal testing did not show any effects on fertility.  
GLP: yes

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit, female  
Application Route: Oral  
Dose: 10-30-100 milligram per kilogram  
General Toxicity Maternal: NOAEL: 30 mg/kg bw/day  
Teratogenicity: NOAEL: 100 mg/kg bw/day  
Developmental Toxicity: NOEL: 30 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses  
GLP: yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

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

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Early Embryonic Development: NOAEL: 10 mg/kg body weight  
Symptoms: No effects on early embryonic development.  
Method: OECD Test Guideline 422

### (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:

Effects on fertility : Remarks: Animal testing did not show any effects on fertility.

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### Proprietary benzotriazole amine:

Effects on fertility : General Toxicity Parent: NOAEL: 45 mg/kg body weight  
Fertility: NOAEL: 150 mg/kg body weight  
Early Embryonic Development: NOAEL: 45 mg/kg body weight

### STOT-single exposure

Not classified based on available information.

### Components:

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Components:

#### Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species : Rat, male  
LOAEL : 125 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : 5 days/week  
Dose : 0 - 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  
NOAEC :  $\geq 1$  mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 20 d  
Number of exposures : 6 hours/day  
Dose : 0 - 0.05 - 0,22  
Method : OECD Test Guideline 412  
GLP : No information available.  
Remarks : Subacute toxicity  
Test results on an analogous product

Species : Rat, male and female  
NOAEL :  $\geq 2000$  mg/kg  
Application Route : Skin contact  
Exposure time : 90 d

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Number of exposures        : 5 days/week  
Dose                            : 0 - 2000 mg/kg bw/d  
Method                        : OECD Test Guideline 411  
GLP                             : No information available.  
Remarks                      : Subchronic toxicity  
                                      : Test results on an analogous product

### Proprietary amine reaction product:

Species                        : Rat, male and female  
NOAEL                         : 25 mg/kg  
Application Route            : Oral  
Exposure time                : 28 d  
Number of exposures        : daily  
Dose                            : 25-75-225 mg/kg bw/d  
Method                        : OECD Test Guideline 422  
GLP                             : yes  
Remarks                      : Subacute toxicity

### (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:

Remarks                      : No known significant effects or critical hazards.

### Proprietary benzotriazole amine:

Species                        : Rat  
NOAEL                         : 45 mg/kg  
Application Route            : Oral

### Aspiration toxicity

Not classified based on available information.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### **Distillates (petroleum), solvent-dewaxed heavy 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: nominal concentration  
                                      : Test results on an analogous product  
                                      : water extractable fraction

Toxicity to daphnia and other : EL50 (Daphnia magna (Water flea)): > 10,000 mg/l  
aquatic invertebrates        : Exposure time: 48 h

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Analytical monitoring: no  
Method: OECD Test Guideline 202  
GLP: No information available.  
Remarks: nominal concentration  
Test results on an analogous product  
water extractable fraction

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

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

### **2,6-di-tert-butylphenol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 0.45 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : LC50: 0.006 mg/l  
Exposure time: 60 Days

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M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h

### Proprietary amine reaction product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: no  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 51 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  
nominal concentration

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: Fresh water  
nominal concentration

NOEC (Desmodesmus subspicatus (green algae)): > 10 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: Fresh water  
nominal concentration

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL10 (Daphnia magna (Water flea)): 1.69 mg/l  
End point: Reproduction  
Exposure time: 21 Days

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Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: Fresh water  
nominal concentration  
water extractable fraction

Toxicity to microorganisms : 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  
nominal concentration

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (microalgae)): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (algae)): > 10  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
GLP: no  
Remarks: Fresh water

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8.5 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

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GLP: no  
Remarks: Fresh water

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 0.96 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Fresh water

### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 6.8 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.43 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 6.3 mg/l  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3

NOEC (Desmodesmus subspicatus (green algae)): 0.91 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): 1,300 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes

### **Proprietary benzotriazole amine:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1.3 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC10 (Daphnia magna (Water flea)): 1.93 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): 0.976 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0.658 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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Toxicity to microorganisms : EC50 (Bacteria): 13 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Biodegradability : aerobic  
Concentration: 44 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

Stability in water : Remarks: The product is insoluble and floats on water.

##### **2,6-di-tert-butylphenol:**

Biodegradability : Result: Not readily biodegradable.

##### **Proprietary amine reaction product:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 20.1 mg/l  
Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 12 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Biodegradability : aerobic  
Result: Readily biodegradable.  
Biodegradation: 85.2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B



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### Bioaccumulative potential

#### Components:

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Partition coefficient: n-octanol/water : log Pow: > 3.90  
Method: Calculated value

##### **2,6-di-tert-butylphenol:**

Partition coefficient: n-octanol/water : log Pow: 4.92

##### **Proprietary amine reaction product:**

Partition coefficient: n-octanol/water : log Pow: 6.66 (73 °F / 23 °C)  
pH: 6.67  
Method: OECD Test Guideline 123  
GLP: yes  
Remarks: Based on data from similar materials

##### **1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole:**

Partition coefficient: n-octanol/water : log Pow: 5.3

##### **(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine:**

Partition coefficient: n-octanol/water : log Pow: 3.5 - 4.2  
Method: Regulation (EC) No. 440/2008, Annex, A.8

### Mobility in soil

#### Components:

##### **Distillates (petroleum), solvent-dewaxed heavy paraffinic:**

Mobility : Remarks: The product is insoluble and floats on water.  
Known distribution to environmental compartments

#### **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 classi-

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fied 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

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(2,6-DI-TERT-BUTYLPHENOL)  
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.  
(2,6-DI-TERT-BUTYLPHENOL)  
Class : 9  
Packing group : III  
Labels : 9

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EmS Code : F-A, S-F  
Marine pollutant : yes



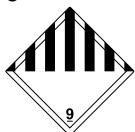
### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(2,6-DI-TERT-BUTYLPHENOL)  
Class : 9  
Packing group : III  
Labels : 9



ERG Code : 171  
Marine pollutant : yes



### Hazard and Handling Notes.

Environmentally hazardous substance., Irritating to skin., Risk of serious damage to eyes, Keep separated from foodstuffs

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### 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  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### Massachusetts Right To Know

2,6-di-tert-butylphenol	128-39-2
Proprietary amine reaction product	Trade Secret

##### Pennsylvania Right To Know

Proprietary sulfuryl alkene	Trade Secret
Proprietary ingredient	Trade Secret
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
2,6-di-tert-butylphenol	128-39-2
Proprietary amine reaction product	Trade Secret
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4
Proprietary methylene ester	Trade Secret
1-(N,N-bis(2-ethylhexyl)aminomethyl)-1,2,4-triazole	91273-04-0
Proprietary Amine	Trade Secret

##### 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.

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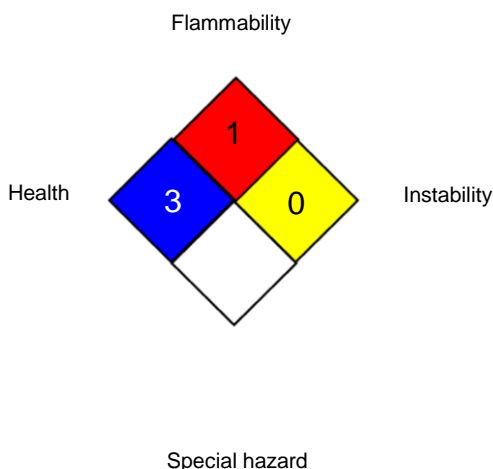


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### SECTION 16. OTHER INFORMATION

#### 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)  
ACGIH / TWA : 8-hour, time-weighted average

AIC - 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

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opment; 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; TECL - 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

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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.