

# SAFETY DATA SHEET

## ADDITIN RC 4955



Version            Revision Date:            SDS Number:            Date of last issue: -  
1.0                10/31/2022                203000010742            Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name                : ADDITIN RC 4955  
Product code                : 000000000062534558

#### 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            : Lubricants and lubricant additives

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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  
Eye irritation                 : Category 2A  
Skin sensitization            : Category 1

#### GHS label elements

Hazard pictograms            :



Signal Word                 : Warning

Hazard Statements            : Causes skin irritation.  
                                  May cause an allergic skin reaction.  
                                  Causes serious eye irritation.

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Precautionary Statements : **Prevention:**  
Avoid breathing mist or vapors.  
Wash skin thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/ 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.  
If skin irritation or rash occurs: Get medical advice/ attention.  
If eye irritation persists: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.

**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)
2-Amino-2-Methyl-1-Propanol	124-68-5	>= 10 - < 20
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	>= 10 - < 20
2,2'-(octylimino)bisethanol	15520-05-5	>= 5 - < 10
Sodium Petroleum Sulphonates	68608-26-4	>= 5 - < 10
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	>= 1 - < 5
ALCOHOLS, C16-18 AND C18-UNSATURATED, ETHOXYLATED	68920-66-1	>= 1 - < 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	>= 1 - < 5
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0	>= 1 - < 5
Calcium Petroleum Sulfonate	61789-86-4	>= 1 - < 5
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	>= 1 - < 5

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

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### 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.  
Do not leave the victim unattended.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and plenty of 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 : Immediately flush eye(s) with plenty of water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Continue to rinse for at least 20 minutes.  
Get medical attention if symptoms appear.
- 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: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.  
Skin: Causes irritation with symptoms of reddening, itching, and swelling.  
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
- Effects : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.
- 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.

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- 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 dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</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.
- 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

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- 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.  
Use only with adequate ventilation.  
Persons with a history of skin sensitization to this product should not be employed in any process in which this product is used.
- Conditions for safe storage** : Store in accordance with local regulations.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.  
Keep containers sealed until ready for use.  
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not store in unlabeled containers.  
Use appropriate container to avoid environmental contamination.  
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-refined heavy paraffinic	64741-88-4	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH
		TWA (Mist)	5 mg/m <sup>3</sup>	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.

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### Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Hand protection

Material : Nitrile rubber  
Wearing time : < 60 min

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

Eye protection : Safety glasses with side-shields

Skin and body protection : Protective suit  
Impervious clothing  
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

Appearance : Wax.

Physical state : liquid

Color : brown

Odor : slight, oily

Odor Threshold : No data available

pH : ca. 7.3 (68 °F / 20 °C)  
Concentration: 2.5 %  
in TBN solvent

Melting point/range : No data available



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Chemical stability : Stable under normal conditions.  
Conditions to avoid : No data available  
Incompatible materials : No specific data.  
Hazardous decomposition products : No hazardous decomposition products are known.

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### SECTION 11. TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Not classified based on available information.

#### Product:

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

#### Components:

##### **2-Amino-2-Methyl-1-Propanol:**

Acute oral toxicity : LD50 (Rat, male): 2,900 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.  
Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality

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

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

##### **2,2'-(octylimino)bisethanol:**



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Acute oral toxicity : LD50 (Rat, female): 1,157 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Dosage caused no mortality

### **Sodium Petroleum Sulphonates:**

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

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Dosage caused no mortality

LD50 (Rat, male): > 16,000 mg/kg  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPP 81-3 Acute Inhalation Toxicity  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: 40 CFR, Section 163.81-5, Federal Register, August 22, 1978 as modified in accordance with the revised EPA Pesticide Assessment Guidelines November 1982

GLP: yes

### **ALCOHOLS, C16-18 AND C18-UNSATURATED, ETHOXYLATED:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

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Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

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

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: No information available.  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality  
Test results on an analogous product

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

### **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Dosage caused no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPP 81-3 Acute Inhalation Toxicity  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Dosage caused no mortality

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### Calcium Petroleum Sulfonate:

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Remarks: No mortality observed at this dose.
- Acute inhalation toxicity : LC50 (Rat, male and female): > 1.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OPP 81-3 Acute Inhalation Toxicity  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Dosage caused no mortality
- Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Dosage caused no mortality

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

- Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
Remarks: Test results on an analogous product
- Acute inhalation toxicity : LC50 (Rat, male and female): > 5.53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Test results on an analogous product
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 5,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### 2-Amino-2-Methyl-1-Propanol:

Result : Irritating to skin.

#### 2,2'-(octylimino)bisethanol:

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : irritating



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

Causes serious eye irritation.

#### **Product:**

Assessment : Irritating to eyes.  
Remarks : Expert judgment

#### **Components:**

##### **2-Amino-2-Methyl-1-Propanol:**

Result : Irritating to eyes.

##### **2,2'-(octylimino)bisethanol:**

Species : Rabbit  
Result : Irreversible effects on the eye  
Exposure time : 24 h  
Method : OECD Test Guideline 405  
GLP : yes

##### **Sodium Petroleum Sulphonates:**

Species : Rabbit  
Result : Eye irritation

##### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

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

##### **ALCOHOLS, C16-18 AND C18-UNSATURATED, ETHOXYLATED:**

Remarks : Non-irritating

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

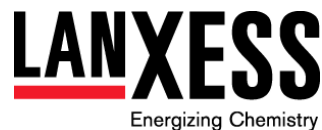
Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405  
GLP : yes  
Remarks : Test results on an analogous product

##### **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Species : Rabbit  
Result : No eye irritation

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### Calcium Petroleum Sulfonate:

Species : Rabbit  
Result : No eye irritation

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

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

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified based on available information.

### Components:

#### 2-Amino-2-Methyl-1-Propanol:

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 : no

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

Routes of exposure : Skin contact  
Species : Guinea pig  
Result : Did not cause sensitization on laboratory animals.

#### 2,2'-(octylimino)bisethanol:

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

#### Sodium Petroleum Sulphonates:

Routes of exposure : Dermal  
Species : Humans  
Assessment : Does not cause skin sensitization.  
Result : negative

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### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Routes of exposure            : Dermal  
Species                        : Guinea pig  
Result                         : The product is a skin sensitiser, sub-category 1B.

Test Type                     : Buehler Test  
Routes of exposure            : Skin contact  
Species                        : Guinea pig  
Result                         : The product is a skin sensitiser, sub-category 1B.

### **ALCOHOLS, C16-18 AND C18-UNSATURATED, ETHOXYLATED:**

Remarks                      : Non-sensitizer to skin.

### **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

### **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Test Type                     : Local lymph node assay (LLNA)  
Routes of exposure            : Dermal  
Species                        : Mouse  
Method                        : OECD Test Guideline 429  
Result                         : The product is a skin sensitiser, sub-category 1B.

### **Calcium Petroleum Sulfonate:**

Routes of exposure            : Dermal  
Species                        : Guinea pig  
Result                         : The product is a skin sensitiser, sub-category 1B.

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

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

### **Germ cell mutagenicity**

Not classified based on available information.

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**Components:****2-Amino-2-Methyl-1-Propanol:**

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: 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 and female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

**Distillates (petroleum), solvent-refined heavy paraffinic:**

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

**2,2'-(octylimino)bisethanol:**

Genotoxicity in vitro : 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

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

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: mice (male and female)  
Strain: NMRI



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Cell type: In red blood cells  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

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 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

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Mouse (male and female)  
Cell type: Bone marrow  
Application Route: Oral  
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.

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

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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 product

### **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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

### **Calcium Petroleum Sulfonate:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Bacteria  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
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  
Remarks: Test results on an analogous product

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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 product

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

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

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

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

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

#### **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

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

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

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Not classified based on available information.

### Components:

#### **2,2'-(octylimino)bisethanol:**

Effects on fertility : Test Type: reproductive and developmental toxicity study  
Species: Rat, male and female  
Strain: wistar  
Application Route: Oral  
Dose: 0,20,80,320 milligram per kilogram  
Duration of Single Treatment: 54 d  
General Toxicity Parent: NOAEL: 320 mg/kg body weight  
General Toxicity F1: NOAEL: 320 mg/kg body weight  
Method: OECD Test Guideline 421  
GLP: yes  
Remarks: Animal testing did not show any effects on fertility.

#### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Duration of Single Treatment: 28 Days  
General Toxicity Parent: NOAEL: >= 500 mg/kg body weight  
Fertility: NOAEL: >= 500 mg/kg body weight  
Method: OECD Test Guideline 415  
GLP: yes  
Remarks: Test results on an analogous product

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

Effects on fertility : Test Type: Fertility/early embryonic development

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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 product

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

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

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

### **STOT-single exposure**

Not classified based on available information.

### **Components:**

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

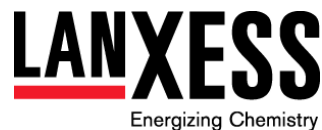
Assessment : May cause respiratory irritation.

#### **2,2'-(octylimino)bisethanol:**

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

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

Assessment : May cause respiratory irritation.

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

Assessment : May cause respiratory irritation.

### **STOT-repeated exposure**

Not classified based on available information.

### **Components:**

#### **2,2'-(octylimino)bisethanol:**

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

### **Repeated dose toxicity**

### **Components:**

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

Species : Rabbit, male and female  
NOAEL : > 1,000 mg/kg  
Application Route : Skin contact  
Exposure time : 28 d  
Number of exposures : 5 days/week  
Remarks : Chronic toxicity

Species : Rat, male and female  
NOAEL : 0.21 mg/l  
Application Route : Inhalation  
Exposure time : 28 d  
Remarks : Chronic toxicity

#### **2,2'-(octylimino)bisethanol:**

Species : Rat, male and female  
NOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Number of exposures : daily  
Dose : 20,100,500  
Control Group : yes  
Method : OECD Test Guideline 407  
GLP : yes  
Remarks : No adverse effect has been observed in chronic toxicity tests.

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**Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Species	:	Rat, male and female
NOAEL	:	500 mg/kg
Application Route	:	Oral
Exposure time	:	28 Days
Number of exposures	:	daily
Method	:	OECD Test Guideline 407
GLP	:	yes
Remarks	:	Test results on an analogous product

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

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

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

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

Species	:	Rat, male and female
NOAEL	:	> 980 mg/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 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 product

### Aspiration toxicity

Not classified based on available information.

### Components:

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

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

### Further information

#### Product:

Remarks : No data available

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### **2-Amino-2-Methyl-1-Propanol:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l  
Exposure time: 96 h

#### **2,2'-(octylimino)bisethanol:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 22 mg/l  
End point: mortality  
Exposure time: 96 h



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Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 19 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1.35 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

EC10 (Desmodesmus subspicatus (green algae)): 0.402 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 328 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: yes

### **Sodium Petroleum Sulphonates:**

Toxicity to fish : LC0 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
Exposure time: 96 h  
Remarks: water extractable fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Remarks: water extractable fraction

### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
End point: mortality  
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 product

Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia magna* (Water flea)): > 1,000 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Analytical monitoring: yes  
Method: OPPTS 797.1300  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to algae/aquatic plants : EL50 (*Pseudokirchneriella subcapitata* (green algae)): > 1,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

NOAEL (No observed adverse effect level) (*Pseudokirchneriella subcapitata* (green algae)): >= 1,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
GLP: yes  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: water extractable fraction

### ALCOHOLS, C16-18 AND C18-UNSATURATED, ETHOXYLATED:

Toxicity to fish : LC50 (*Danio rerio* (zebra fish)): > 1 - 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (*Daphnia*): 51 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Fresh water

Toxicity to algae/aquatic : EL50 (*Pseudokirchneriella subcapitata* (microalgae)): > 10



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Remarks: water extractable fraction

**Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:**

- Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: water extractable fraction
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OPPTS 797.1300  
Remarks: water extractable fraction  
Test results on an analogous product
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: water extractable fraction  
Test results on an analogous product
- NOEC (Pseudokirchneriella subcapitata (microalgae)): 1,000 mg/l  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: water extractable fraction  
Test results on an analogous product
- Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209

**Calcium Petroleum Sulfonate:**

- Toxicity to fish : LL50 (Cyprinodon variegatus (sheepshead minnow)): > 10,000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes  
Remarks: water extractable fraction
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1,000 mg/l  
End point: Immobilization

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Exposure time: 48 h  
Test Type: static test  
Method: OPPTS 797.1300  
Remarks: water extractable fraction

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: Test results on an analogous product water extractable fraction

NOEC (Pseudokirchneriella subcapitata (green algae)): 1,000 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Method: OTS 797.1050 (Algal Toxicity, Tiers I and II)  
Remarks: water extractable fraction  
Test results on an analogous product

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: water extractable fraction

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

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

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

Toxicity to algae/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

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NOEC (Pseudokirchneriella subcapitata (microalgae)):  $\geq$  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

### Persistence and degradability

#### Components:

##### **2-Amino-2-Methyl-1-Propanol:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 11.1 mg/l  
Biochemical oxygen demand  
Result: Readily biodegradable.  
Biodegradation: 89.3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

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

Biodegradability : Result: Not readily biodegradable.

##### **2,2'-(octylimino)bisethanol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 8 mg/l  
CO<sub>2</sub>  
Result: rapidly biodegradable  
Biodegradation: 96 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

Chemical Oxygen Demand (COD) : 2,269 mg/g



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

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 - 4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

### **Bioaccumulative potential**

#### **Components:**

#### **2-Amino-2-Methyl-1-Propanol:**

Partition coefficient: n-octanol/water : log Pow: ca. -0.63 (68 °F / 20 °C)  
pH: > 9  
Method: OECD Test Guideline 107  
GLP: no

#### **2,2'-(octylimino)bisethanol:**

Partition coefficient: n-octanol/water : log Pow: 2.8  
Method: Calculated value

#### **Sodium Petroleum Sulphonates:**

Bioaccumulation : Bioconcentration factor (BCF): 70

Partition coefficient: n-octanol/water : log Pow: 18.05 (77 °F / 25 °C)

#### **Mobility in soil**

No data available

#### **Other adverse effects**

No data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Send to a licensed waste management company.

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## **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**



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### 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, Irritating to skin and eyes., Keep separated from foodstuffs

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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  
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-Amino-2-Methyl-1-Propanol	124-68-5	10 - 20
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	1 - 5
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5

#### Pennsylvania Right To Know

Fatty acids, C14-18 and C16-18-unsatd.	67701-06-8	> 1
2-Amino-2-Methyl-1-Propanol	124-68-5	10 - 20
1,2,3-Propanetriol, homopolymer, (9Z,12R)-12-hydroxy-9-octadecenoate	68936-89-0	> 1
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	10 - 20
Proprietary Component	Trade Secret	> 1
2,2'-(octylimino)bisethanol	15520-05-5	5 - 10

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Sodium Petroleum Sulphonates	68608-26-4	5 - 10
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6	1 - 5
ALCOHOLS, C16-18 AND C18-UNSATURATED, ETHOXYLATED	68920-66-1	1 - 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	1 - 5
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5

### 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

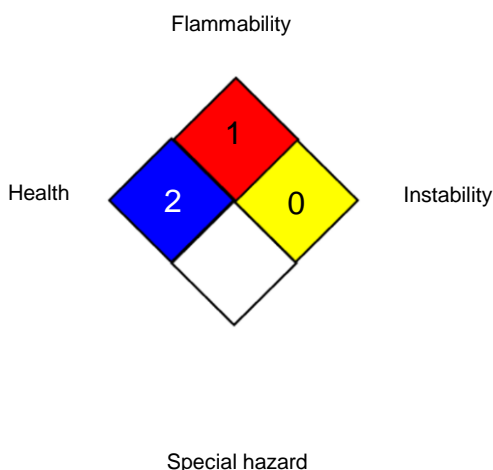
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

# SAFETY DATA SHEET

## ADDITIN RC 4955



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its for Air Contaminants  
ACGIH / TWA : 8-hour, time-weighted average  
OSHA Z-1 / TWA : 8-hour time weighted average

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; 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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