

# SAFETY DATA SHEET

## ANDEROL 456



Version 1.0      Revision Date: 10/26/2020      SDS Number: 203000016496      Date of last issue: -  
Country / Language: US / EN

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### SECTION 1. IDENTIFICATION

Product name : ANDEROL 456  
Product code : 00000000058252793

#### Manufacturer or supplier's details

Company : LANXESS Corporation  
Product Safety & Regulatory Affairs  
111 RIDC Park West Drive  
15275-1112 Pittsburgh, United States of America

Responsible Department : +1800LANXESS

Emergency telephone : Chemtrec (800) 424-9300  
International (703) 527-3887  
Lanxess Emergency Phone (800) 410-3063

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

Recommended use : Lubricant

Restrictions on use : Reserved for industrial and professional use.


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### SECTION 2. HAZARDS IDENTIFICATION

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

Skin sensitization : Category 1

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : May cause an allergic skin reaction.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.

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### Response:

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Wash contaminated clothing before reuse.

### Disposal:

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

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	>= 1 - < 5
barium bis(dinonylnaphthalenesulphonate)	25619-56-1	>= 1 - < 5
propyl 3,4,5-trihydroxybenzoate	121-79-9	>= 0.1 - < 1

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  
Move to fresh air.  
If not breathing, give artificial respiration.  
In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible.  
Get medical attention.
- In case of skin contact : Wash off with soap and water.  
Remove contaminated clothing and shoes.  
Continue to rinse for at least 20 minutes.  
Get medical attention if symptoms occur.  
Wash contaminated clothing before re-use.
- In case of eye contact : In case of eye contact  
Flush with plenty of water.  
If eye irritation persists, consult a specialist.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Consult a physician if necessary.

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

- Symptoms : Skin: Causes irritation with symptoms of reddening, itching, and swelling.  
May cause sensitization by skin contact.  
Once sensitized, an allergic skin reaction may occur with reddening, swelling, and rash when subsequently exposed to very low levels.
- Effects : May cause an allergic skin reaction.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.
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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Dry sand  
Alcohol-resistant foam  
Water mist
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Burning produces obnoxious and toxic fumes.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Sulfur oxides  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)
- Further information : In the event of fire, cool tanks with water spray.
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Clean contaminated surface thoroughly.
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Material can create slippery conditions.

Environmental precautions : Do not contaminate water.  
Do not flush into surface water or sanitary sewer system.  
Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up : 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).

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Keep container closed when not in use.  
Do not use pressure to empty drums.  
Ensure all equipment is electrically grounded before beginning transfer operations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m <sup>3</sup>	ACGIH

Engineering measures : Local ventilation is needed in the presence of airborne mists.  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

Respiratory protection : not required under normal use  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection

Remarks : Neoprene gloves

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Eye protection : Safety glasses with side-shields  
Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Hygiene measures : Avoid contact with skin, eyes and clothing.  
Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : oily, liquid

Color : clear

Odor : No data available

Odor Threshold : No data available

pH : Not applicable

Pour point : -65 °F / -54 °C

Boiling point/boiling range : No data available

Flash point :  $\geq 428$  °F / 220 °C  
Method: Cleveland open cup  
No data available

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 vapor density : No data available

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Relative density : No data available

Density : 0.9150 - 0.9450 g/cm<sup>3</sup> (59 °F / 15 °C)

Solubility(ies)  
Water solubility : < 1 g/l slightly soluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : Not applicable

Decomposition temperature : No data available

Self-Accelerating decomposition temperature (SADT) : Method: No information available.

Viscosity  
Viscosity, dynamic : 28.8 - 35.2 mPa.s (104 °F / 40 °C)  
Method: ASTM D 445

Viscosity, kinematic : 28.80 - 35.20 mm<sup>2</sup>/s (104 °F / 40 °C)  
Method: ASTM D 445

Explosive properties : No data available

Oxidizing properties : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : No decomposition if stored and applied as directed.

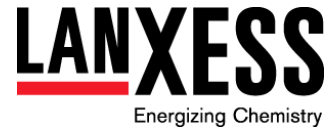
Possibility of hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : Contamination  
Heat, flames and sparks.

Incompatible materials : Strong acids and strong bases  
Strong oxidizing agents

Hazardous decomposition products : Carbon oxides  
Oxides of phosphorus  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides

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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  
Skin Absorption

#### Acute toxicity

Not classified based on available information.

#### Product:

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

#### Components:

##### **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

##### **barium bis(dinonylnaphthalenesulphonate):**

Acute oral toxicity : LD50 (Rat): 1750 mg/kg body weight

##### **propyl 3,4,5-trihydroxybenzoate:**

Acute oral toxicity : LD50 (Mouse, female): > 1,000 - 2,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: No information available.

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

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Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: No mortality observed at this dose.

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

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

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

#### **barium bis(dinonylnaphthalenesulphonate):**

Species : Rabbit  
Result : Irritating to skin.

#### **propyl 3,4,5-trihydroxybenzoate:**

Species : human skin  
Exposure time : 15 min  
Method : OECD Test Guideline 439  
Result : No skin irritation  
GLP : yes

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

Not classified based on available information.

### **Components:**

#### **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

#### **propyl 3,4,5-trihydroxybenzoate:**

Species : Rabbit  
Result : Risk of serious damage to eyes.  
Exposure time : 1 h  
Method : OECD Test Guideline 405  
GLP : yes



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### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

##### **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

##### **propyl 3,4,5-trihydroxybenzoate:**

Test Type : Local lymph node assay (LLNA)  
Routes of exposure : Skin contact  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : May cause sensitization by skin contact.  
GLP : no

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### **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

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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

### **propyl 3,4,5-trihydroxybenzoate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive  
GLP: No information available.

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster lung cells  
Metabolic activation: without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive  
GLP: No information available.

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (female)  
Cell type: Bone marrow  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative  
GLP: No information available.

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

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

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

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

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

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

### Reproductive toxicity

Not classified based on available information.

### Components:

#### **Distillates (petroleum), hydrotreated light 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: >= 1,000 mg/kg body weight  
Fertility: NOAEL: >= 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: >= 2,000 mg/kg body weight  
Developmental Toxicity: NOAEL: >= 2,000 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative  
GLP: yes  
Remarks: Test results on an analogous product

#### **propyl 3,4,5-trihydroxybenzoate:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female

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Application Route: Oral  
Dose: 18,2-104-260 milligram per kilogram  
General Toxicity Parent: NOAEL: 260 mg/kg body weight  
Result: No effects on fertility and early embryonic development were detected.  
GLP: no

Effects on fetal development : Species: Rat  
Application Route: Oral  
Dose: 0-350-880-2040 milligram per kilogram  
General Toxicity Maternal: NOAEL: 880 mg/kg body weight  
Developmental Toxicity: NOAEL: 880 mg/kg body weight  
Result: negative

### STOT-single exposure

Not classified based on available information.

#### Components:

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

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

#### Components:

##### **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

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

### **propyl 3,4,5-trihydroxybenzoate:**

Species : Rat, male and female  
NOAEL : 135 mg/kg bw/day  
Application Route : Oral  
Exposure time : 13 Weeks  
Number of exposures : ad libitum  
Dose : 0-500-2000-8000 mg/kg diet  
Method : OECD Test Guideline 408  
GLP : No information available.

### **Aspiration toxicity**

Not classified based on available information.

### **Product:**

No aspiration toxicity classification

### **Components:**

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

No aspiration toxicity classification

### **Further information**

### **Product:**

Remarks : The product itself has not been tested.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

### **Product:**

Toxicity to fish :  
Test substance: No data available

### **Components:**

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

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

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

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

NOEC (*Pseudokirchneriella subcapitata* (microalgae)): >= 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: no  
Remarks: water extractable fraction

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

### propyl 3,4,5-trihydroxybenzoate:

Toxicity to fish : NOEC (*Danio rerio* (zebra fish)): >= 0.8 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 19.06 mg/l  
End point: Immobilization

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Exposure time: 48 h  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.37 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): 636 mg/l  
End point: Respiration inhibition  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: no

### Persistence and degradability

#### Product:

Biodegradability : Result: No data available

#### Components:

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

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

##### **propyl 3,4,5-trihydroxybenzoate:**

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Result: Not readily biodegradable.  
Biodegradation: 49.4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

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### Components:

#### **propyl 3,4,5-trihydroxybenzoate:**

Partition coefficient: n-octanol/water      :      Pow: 1.8  
Method: Calculated value

#### **Mobility in soil**

No data available

#### **Other adverse effects**

### Product:

Additional ecological information      :      Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
The product itself has not been tested.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

RCRA - Resource Conservation and Recovery Authorization Act      :      If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Waste from residues      :      In accordance with local and national regulations. Dispose of wastes in an approved waste disposal facility. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging      :      Do not burn, or use a cutting torch on, the empty drum. Empty remaining contents. Dispose of as unused product.

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## SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### **Domestic regulation**



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### 49 CFR

Not regulated as a dangerous good

Hazard and Handling Notes. : Not dangerous cargo, Keep separated from foodstuffs

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
1-naphthylamine	134-32-7	100	*
2-naphthylamine	91-59-8	10	*
aniline	62-53-3	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitization

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

barium bis(dinonylnaphthalenesulphonate)	25619-56-1	>= 1 - < 5 %
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### US State Regulations

#### Massachusetts Right To Know

Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5
aniline	62-53-3	< 0.1
1-naphthylamine	134-32-7	< 0.001

#### Pennsylvania Right To Know

diisodecyl adipate	27178-16-1	> 1
Proprietary Polymer	Trade Secret	> 1
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	1 - 5
Proprietary Solvent	Trade Secret	> 1
barium bis(dinonylnaphthalenesulphonate)	25619-56-1	1 - 5

#### California Prop. 65

WARNING: This product can expose you to chemicals including aniline, 1-naphthylamine, 2-naphthylamine, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### TSCA inventory

TSCA : All substances listed as active on the TSCA inventory

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### TSCA list

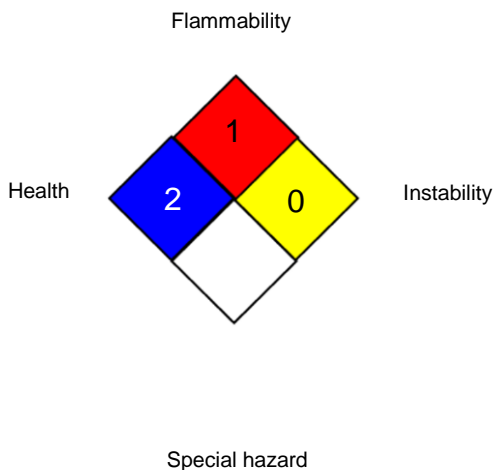
No substances are subject to a Significant New Use Rule.

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

AICS - Australian Inventory of Chemical Substances; 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

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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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 10/26/2020

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.