





Signal word

Danger

Hazard statements

Harmful if swallowed.  
Causes severe skin burns and eye damage.

Precautionary statements

**Prevention:**

Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

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 or doctor/ physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

**Storage:**

Store locked up.

**Disposal:**

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

**Other hazards**

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

**Components**

| Chemical Name     | CAS-No.      | Concentration (% w/w) |
|-------------------|--------------|-----------------------|
| 3-Amino-4-octanol | 1001354-72-8 | >= 80.0 %             |
| Water             | 7732-18-5    | 15.0%                 |
| Impurities        |              | <= 3.0 %              |

### 4. FIRST AID MEASURES

If inhaled

Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection

|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| In case of skin contact                                     | Immediate continued and thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical consultation is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.                                                                                                                                                                                                                                                                                                       |
| If swallowed                                                | Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Most important symptoms and effects, both acute and delayed | Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.                                                                                                                                                                                                                                                                                                                                                                                              |
| Protection of first-aiders                                  | First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).<br>If potential for exposure exists refer to Section 8 for specific personal protective equipment.                                                                                                                                                                                                                                                                                                                                                                                                          |
| Notes to physician                                          | If burn is present, treat as any thermal burn, after decontamination.<br>Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.<br>No specific antidote.<br>Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done.<br>Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. |

## 5. FIREFIGHTING MEASURES

|                                      |                                                                                                                                                                                                                                                                              |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media         | Water fog or fine spray.<br>Carbon dioxide fire extinguishers.<br>Dry chemical fire extinguishers.<br>Foam.<br>Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. |
| Specific hazards during firefighting | Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.                                                                                                                                                                       |
| Hazardous combustion products        | During a fire, smoke may contain the original material in addition to combustion products of varying composition which                                                                                                                                                       |

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                               | <p>may be toxic and/or irritating.<br/>                 Combustion products may include and are not limited to:<br/>                 Carbon dioxide.<br/>                 Carbon monoxide.<br/>                 Nitrogen oxides.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Further information                           | <p>Keep people away. Isolate fire and deny unnecessary entry.<br/>                 Do not use direct water stream. May spread fire.<br/>                 Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.<br/>                 Burning liquids may be extinguished by dilution with water.</p>                                                                                                                                                                                                                                                                                                                                             |
| Special protective equipment for firefighters | <p>Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).<br/>                 Avoid contact with this material during fire fighting operations.<br/>                 If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location.<br/>                 For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.</p> |

## 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | <p>Keep upwind of spill.<br/>                 Ventilate area of leak or spill.<br/>                 Only trained and properly protected personnel must be involved in clean-up operations.<br/>                 Evacuate area.<br/>                 Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.<br/>                 Refer to section 7, Handling, for additional precautionary measures.</p> |
| Environmental precautions                                           | <p>Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.</p>                                                                                                                                                                                                                                                                                                                                                 |
| Methods and materials for containment and cleaning up               | <p>Contain spilled material if possible.<br/>                 Absorb with materials such as:<br/>                 Sand.<br/>                 Collect in suitable and properly labeled containers.<br/>                 See Section 13, Disposal Considerations, for additional information.</p>                                                                                                                                                                                |

## 7. HANDLING AND STORAGE

|                         |                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | <p>Avoid breathing mist.<br/>                 Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.<br/>                 Do not swallow.<br/>                 Wash thoroughly after handling.<br/>                 Use with adequate ventilation.</p> |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Do not get in eyes, on skin, on clothing.  
 Keep container closed.  
 See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage      Keep containers tightly closed when not in use to prevent formation of carbonate salts.  
 Store in a dry place.  
 Store in original container.  
 Avoid moisture.  
 Do not store in:  
 Zinc.  
 Galvanized containers.  
 Aluminum.  
 Copper.  
 Copper alloys.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Engineering measures

Local exhaust ventilation may be necessary for some operations.  
 Use engineering controls to maintain airborne level below exposure limit requirements or guidelines.  
 If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation.

### Personal protective equipment

#### Respiratory protection

In misty atmospheres, use an approved particulate respirator. Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process.

#### Hand protection

Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Chlorinated polyethylene. Neoprene. Butyl rubber. Natural rubber ("latex"). Polyvinyl chloride ("PVC" or "vinyl"). Examples of acceptable glove barrier materials include: Viton. Nitrile/butadiene rubber ("nitrile" or "NBR"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

|                          |                                                                                                                                                                          |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye protection           | Use chemical goggles.                                                                                                                                                    |
| Skin and body protection | Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. |

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Appearance                       | liquid                                                                                  |
| Color                            | Colorless to yellow                                                                     |
| Odor                             | Amine.                                                                                  |
| Odor Threshold                   | No test data available                                                                  |
| pH                               | 11.2, 1% aqueous solution.<br>Method: Measured                                          |
| Melting point/range              | -3 °C (27 °F)<br>Method: Measured                                                       |
| Freezing point                   | -3 °C (27 °F)<br>Method: Measured                                                       |
| Boiling point/boiling range      | 218 °C (424 °F)<br>For the active ingredient(s): Measured                               |
| Flash point                      | 132 °C (270 °F)<br><br>Method: Setaflash Closed Cup ASTM D3828<br>Test Type: closed cup |
| Evaporation rate                 | No test data available                                                                  |
| Flammability (solid, gas)        | No data available.                                                                      |
| Upper explosion limit            | Not available                                                                           |
| Lower explosion limit            | Not available                                                                           |
| Vapor Pressure                   | 2.79 Pa (20 °C)<br>Method: Measured<br>Active ingredient                                |
| Relative Vapor Density (air = 1) | No test data available                                                                  |
| Relative density                 | 0.91 Method: Pyknometer                                                                 |
| Water solubility                 | 4.3 % (25 °C)<br>Active ingredient, Measured                                            |
| Partition coefficient: n-        | log Pow: 1.3 (25 °C)                                                                    |

|                           |                                                                                                                      |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|
| octanol/water             | Method: Estimated.<br>GLP: yes<br>Bioconcentration potential is low (BCF < 100 or Log Pow < 3).<br>Active ingredient |
| Auto-ignition temperature | > 300 °C<br>Method: Literature                                                                                       |
| Decomposition temperature | No test data available                                                                                               |
| Viscosity                 |                                                                                                                      |
| Viscosity, dynamic        | 37.799 mPa.s (25 °C)<br>Method: Calculated.<br>(Brookfield Viscosity)                                                |
| Viscosity, kinematic      | No test data available                                                                                               |
| Explosive properties      | No data available.                                                                                                   |
| Oxidizing properties      | No data available.                                                                                                   |
| Surface tension           | 52.5 mN/m, 25 °C, As active ingredient:                                                                              |
| Molecular weight          | No test data available                                                                                               |

NOTE: The physical data presented above are typical values and should not be construed as a specification.

---

## 10. STABILITY AND REACTIVITY

---

|                                  |                                                                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical stability               | Stable under recommended storage conditions. See Storage, Section 7.                                                                                                                                                                              |
| Conditions to avoid              | Exposure to elevated temperatures can cause product to decompose.<br>Product absorbs carbon dioxide from the air.<br>Reaction with carbon dioxide may form carbonate salts.                                                                       |
| Incompatible materials           | Avoid contact with:<br>Strong acids.<br>Strong oxidizers.<br>Avoid contact with metals such as:<br>Zinc.<br>Galvanized metals.<br>Aluminum.<br>Copper.<br>Copper alloys.<br>Brass.<br>Avoid unintended contact with:<br>Halogenated hydrocarbons. |
| Hazardous decomposition products | Decomposition products depend upon temperature, air supply and the presence of other materials.                                                                                                                                                   |

---

---

## 11. TOXICOLOGICAL INFORMATION

---

Toxicological information on this product or its components appear in this section when such data is available.

### Acute toxicity

#### Product:

Acute oral toxicity

Remarks: Low toxicity if swallowed.  
Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.  
Swallowing may result in irritation or burns of the mouth, throat, and gastrointestinal tract.

LD50 (Rat, female): 550 mg/kg  
Method: OECD 425 or equivalent  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity

Remarks: At room temperature, exposure to vapor is minimal due to low volatility.  
Mist may cause severe irritation of upper respiratory tract (nose and throat).

Remarks: The LC50 has not been determined.

Acute dermal toxicity

Remarks: Prolonged or widespread skin contact may result in absorption of harmful amounts.  
Absorption has not been determined due to corrosivity.

Remarks: The dermal LD50 has not been determined.

#### Components:

##### **3-Amino-4-octanol**

Acute oral toxicity

LD50 (Rat, female): 550 mg/kg  
Method: OECD 425 or equivalent

Acute inhalation toxicity

Remarks: As product:  
The LC50 has not been determined.

Acute dermal toxicity

Remarks: The dermal LD50 has not been determined.

### Skin corrosion/irritation

#### Product:

Result: Corrosive

Remarks: Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

Remarks: Classified as corrosive to the skin according to DOT guidelines.

#### Components:

##### **3-Amino-4-octanol**



Result: Corrosive

Remarks: Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage.

Remarks: Classified as corrosive to the skin according to DOT guidelines.

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

#### **Product:**

Remarks: Due to the effects of the material on the skin, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

#### **Components:**

##### **3-Amino-4-octanol**

Result: Corrosive

Remarks: Due to the effects of the material on the skin, it is assumed that exposure may cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

### **Respiratory or skin sensitization**

#### **Product:**

Assessment: Does not cause skin sensitization.

Remarks: Did not cause allergic skin reactions when tested in guinea pigs.

Remarks: For respiratory sensitization:

No relevant data found.

#### **Components:**

##### **3-Amino-4-octanol**

Remarks: For skin sensitization:

Did not cause allergic skin reactions when tested in guinea pigs.

Remarks: For respiratory sensitization:

No relevant data found.

### **Carcinogenicity**

#### **Product:**

No relevant data found.

#### **Components:**

##### **3-Amino-4-octanol**

No relevant data found.

### **IARC**

No component 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 identified as a carcinogen or potential carcinogen by OSHA.

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

### Teratogenicity

#### **Product**

Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

#### **Components:**

##### **3-Amino-4-octanol**

Did not cause birth defects or any other fetal effects in laboratory animals.

### Mutagenicity

#### **Product**

Animal genetic toxicity studies were negative.  
In vitro genetic toxicity studies were negative.

#### **Components:**

##### **3-Amino-4-octanol**

Animal genetic toxicity studies were negative.  
In vitro genetic toxicity studies were negative.

### Reproductive toxicity

#### **Product:**

In animal studies, did not interfere with reproduction.

#### **Components:**

##### **3-Amino-4-octanol**

In animal studies, did not interfere with reproduction.

### STOT - single exposure

#### **Product:**

Assessment: Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### **Components:**

##### **3-Amino-4-octanol**

Assessment: Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

### Repeated dose toxicity

#### **Product:**

Species: Rat, male and female

NOAEL: 150.00 mg/kg  
 Application Route: Oral gavage  
 Method: OECD 408 or equivalent  
 GLP: yes

Species: Rat, male and female  
 NOAEL: 60.00 mg/kg  
 Application Route: Oral gavage  
 Method: OECD 407 or equivalent  
 GLP: yes  
 Target Organs: Liver.

Remarks: In animals, effects have been reported on the following organs:  
 Liver.

**Components:**

**3-Amino-4-octanol**

Remarks: In animals, effects have been reported on the following organs:  
 Liver.

**Aspiration toxicity**

**Product:**

Based on available information, aspiration hazard could not be determined.

**Components:**

**3-Amino-4-octanol**

Based on available information, aspiration hazard could not be determined.

---

## 12. ECOLOGICAL INFORMATION

---

**Ecotoxicity**

**Product:**

Toxicity to fish

Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 68 mg/l  
 Exposure time: 96.0 h  
 Test Type: static test  
 Method: OECD Test Guideline 203 or Equivalent  
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 44.00 mg/l  
 Exposure time: 48.0 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent  
 GLP: yes

Toxicity to algae

EyC50 (Pseudokirchneriella subcapitata (green algae)): 5.4

mg/l  
 End point: Growth inhibition (cell density reduction)  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 201 or Equivalent  
 GLP: yes

ErC50 (Pseudokirchneriella subcapitata (green algae)): 58 mg/l  
 End point: Growth inhibition (cell density reduction)  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 201 or Equivalent  
 GLP: yes

**Components:****3-Amino-4-octanol**

Toxicity to fish  
 Remarks: Material is slightly toxic to aquatic organisms on an acute basis (LC50/EC50 between 10 and 100 mg/L in the most sensitive species tested).

LC50 (Oncorhynchus mykiss (rainbow trout)): 68 mg/l  
 Exposure time: 96.0 h  
 Test Type: static test  
 Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other aquatic invertebrates  
 EC50 (Daphnia magna (Water flea)): 44.00 mg/l  
 Exposure time: 48.0 h  
 Test Type: static test  
 Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae  
 ErC50 (Pseudokirchneriella subcapitata (green algae)): 58 mg/l  
 End point: Growth inhibition (cell density reduction)  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 201 or Equivalent

**Persistence and degradability****Product:**

Biodegradability  
 Result: Readily biodegradable  
 Remarks: Material is expected to be readily biodegradable.

Test Type: aerobic  
 Concentration: 36.6 mg/l  
 Biodegradation: 100 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F or Equivalent  
 Remarks: 10-day Window: Pass

**Components:****3-Amino-4-octanol**

Biodegradability  
 Result: Readily biodegradable  
 Remarks: Material is expected to be readily biodegradable.

aerobic  
 Concentration: 36.6 mg/l  
 Biodegradation: 100 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F or Equivalent  
 Remarks: 10-day Window: Pass

### Bioaccumulative potential

#### Product:

Bioaccumulation

Bioconcentration factor (BCF): 2.8  
 Method: Estimated.

Partition coefficient: n-octanol/water

log Pow: 1.3 (25 °C)  
 Method: Estimated.  
 GLP: yes  
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).  
 Active ingredient

#### Components:

##### **3-Amino-4-octanol**

Bioaccumulation

Species: Fish.  
 Bioconcentration factor (BCF): 2.8  
 Method: Estimated.

Partition coefficient: n-octanol/water

log Pow: 1.3 (25 °C)  
 Method: Estimated.  
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

### Mobility in soil

#### Product:

Distribution among environmental compartments

Koc: < 3  
 Method: OECD 121: HPLC Method  
 Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

#### Components:

##### **3-Amino-4-octanol**

Distribution among environmental compartments

Koc: < 3  
 Method: OECD 121: HPLC Method  
 Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

### Other adverse effects

#### Product:

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating

(vPvB).  
 Ozone-Depletion Potential      Remarks: no data available

**Components:**

**3-Amino-4-octanol**

Results of PBT and vPvB assessment      Non-classified vPvB substance Non-classified PBT substance

Ozone-Depletion Potential      Remarks: no data available

**13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues      DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.  
 All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.  
 Regulations may vary in different locations.  
 Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.  
 THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information.  
 FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.  
 Landfill.  
 ANGUS HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.

**14. TRANSPORT INFORMATION**

**International Regulation**

**IATA-DGR**

|                                          |                                                       |
|------------------------------------------|-------------------------------------------------------|
| UN/ID No.                                | UN 2735                                               |
| Proper shipping name                     | Amines, liquid, corrosive, n.o.s. (3-Amino-4-octanol) |
| Class                                    | 8                                                     |
| Packing group                            | II                                                    |
| Labels                                   | Corrosive                                             |
| Packing instruction (cargo aircraft)     | 855                                                   |
| Packing instruction (passenger aircraft) | 851                                                   |

**IMDG-Code**

|                      |                                   |
|----------------------|-----------------------------------|
| UN number            | UN 2735                           |
| Proper shipping name | AMINES, LIQUID, CORROSIVE, N.O.S. |

|                  |                               |
|------------------|-------------------------------|
|                  | (3-Amino-4-octanol)           |
| Class            | 8                             |
| Packing group    | II                            |
| Labels           | 8                             |
| EmS Code         | F-A, S-B                      |
| Marine pollutant | no                            |
| Remarks          | Stowage category A<br>Alkalis |

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

Not applicable for product as supplied.

**National Regulations****49 CFR (DOT)**

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| UN/ID/NA number      | 2735                                                     |
| Proper shipping name | AMINES, LIQUID, CORROSIVE, N.O.S.<br>(3-Amino-4-octanol) |
| Class                | 8                                                        |
| Packing group        | II                                                       |
| Labels               | Class 8 - Corrosive                                      |
| ERG Code             | 153                                                      |
| Marine pollutant     | no                                                       |

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

---

## 15. REGULATORY INFORMATION

---

**OSHA Hazards** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Harmful by ingestion.

**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** Acute Health Hazard  
Chronic Health Hazard

**SARA 302** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**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.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM/ Intermediate or Final VOC's (40 CFR 60.489).

#### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### **US State Regulations**

##### **Massachusetts Right To Know**

No components are subject to the Massachusetts Right to Know Act.

##### **Pennsylvania Right To Know**

The following chemicals are listed because of the additional requirements of Pennsylvania law:

| <b>Cas No.</b> | <b>Component</b>  |
|----------------|-------------------|
| 1001354-72-8   | 3-Amino-4-octanol |

##### **New Jersey Right To Know**

The following chemicals are listed because of the additional requirements of New Jersey law:

| <b>Cas No.</b> | <b>Component</b>  |
|----------------|-------------------|
| 1001354-72-8   | 3-Amino-4-octanol |

##### **California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **The components of this product are reported in the following inventories:**

United States TSCA Inventory  
All Components OK





Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods