



## SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 10-Feb-2015

Revision Number 1

### 1. Identification

**Product Name** Octadecylamine

**Cat No. :** AC129320000; AC129320010; AC129320050; AC129325000

**Synonyms** 1-Aminooctadecane; Octadecylamine.; Stearylamine

**Recommended Use** Laboratory chemicals.

**Uses advised against** No Information available

**Details of the supplier of the safety data sheet**

**Company**  
Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

**Entity / Business Name**  
Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

**Emergency Telephone Number**  
For information **US** call: 001-800-ACROS-01  
/ **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 /  
**Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No.**US**:001-800-424-9300 /  
**Europe**:001-703-527-3887

### 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|  |            |
|--|------------|
| Acute oral toxicity                                  | Category 4 |
| Skin Corrosion/Irritation                            | Category 1 |
| Serious Eye Damage/Eye Irritation                    | Category 1 |
| Specific target organ toxicity - (repeated exposure) | Category 2 |
| Target Organs - Eyes, Skin.                          |            |

#### **Label Elements**

#### **Signal Word**

Danger

#### **Hazard Statements**

Harmful if swallowed  
Causes severe skin burns and eye damage  
Causes serious eye damage  
May cause damage to organs through prolonged or repeated exposure



**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not get in eyes, on skin, or on clothing

**Response**

Get medical attention/advice if you feel unwell

**Skin**

Immediately call a POISON CENTER or doctor/physician  
 Wash contaminated clothing before reuse  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

**Eyes**

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

**Ingestion**

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

**Storage**

Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Very toxic to aquatic life  
 Toxic to aquatic life with long lasting effects

### 3. Composition / information on ingredients

| Component        | CAS-No   | Weight % |
|------------------|----------|----------|
| n-Octadecylamine | 124-30-1 | 90       |

### 4. First-aid measures

|   |   |
|---|---|
| <b>Eye Contact</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.   |
| <b>Skin Contact</b>   | Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.   |
| <b>Inhalation</b>   | Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required. |
| <b>Ingestion</b>  | Do not induce vomiting. Call a physician or Poison Control Center immediately.  |
| <b>Most important symptoms/effects<br/>Notes to Physician</b> | Causes eye burns.<br>Treat symptomatically  |

### 5. Fire-fighting measures

|                                       |   |
|---------------------------------------|---|
| <b>Suitable Extinguishing Media</b>   | Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. alcohol-resistant foam. |
| <b>Unsuitable Extinguishing Media</b> | No information available  |
| <b>Flash Point</b>                    | 148 °C / 298.4 °F   |
| <b>Method -</b>                       | No information available  |

|   |                          |
|---|--------------------------|
| <b>Autoignition Temperature</b>         | Not applicable 265 °C    |
| <b>Explosion Limits</b>                 |                          |
| <b>Upper</b>                            | No data available        |
| <b>Lower</b>                            | No data available        |
| <b>Sensitivity to Mechanical Impact</b> | No information available |
| <b>Sensitivity to Static Discharge</b>  | No information available |

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

|               |                     |                    |                         |
|---------------|---------------------|--------------------|-------------------------|
| <b>Health</b> | <b>Flammability</b> | <b>Instability</b> | <b>Physical hazards</b> |
| 3             | 1                   | 0                  | N/A                     |

**6. Accidental release measures**

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Ensure adequate ventilation. Use personal protective equipment. |
| <b>Environmental Precautions</b> | Do not flush into surface water or sanitary sewer system.       |

**Methods for Containment and Clean Up** Sweep up or vacuum up spillage and collect in suitable container for disposal.

**7. Handling and storage**

|                 |   |
|-----------------|---|
| <b>Handling</b> | Avoid contact with skin and eyes. Do not breathe dust. Avoid contact with clothing. Wear personal protective equipment. |
| <b>Storage</b>  | Keep in a dry, cool and well-ventilated place. Keep container tightly closed.   |

**8. Exposure controls / personal protection**

|                            |   |
|----------------------------|---|
| <b>Exposure Guidelines</b> | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|----------------------------|---|

|                             |   |
|-----------------------------|---|
| <b>Engineering Measures</b> | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. |
|-----------------------------|---|

**Personal Protective Equipment**

|                                 |   |
|---------------------------------|---|
| <b>Eye/face Protection</b>      | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.   |
| <b>Respiratory Protection</b>   | Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.                    |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.  |

**9. Physical and chemical properties**

|                       |       |
|-----------------------|-------|
| <b>Physical State</b> | Solid |
| <b>Appearance</b>     | White |

|  |                             |
|--|-----------------------------|
| Odor                                   | Fishy                       |
| Odor Threshold                         | No information available    |
| pH                                     | No information available    |
| Melting Point/Range                    | 50 - 60 °C / 122 - 140 °F   |
| Boiling Point/Range                    | 232 °C / 449.6 °F @ 32 mmHg |
| Flash Point                            | 148 °C / 298.4 °F           |
| Evaporation Rate                       | Not applicable              |
| Flammability (solid,gas)               | No information available    |
| Flammability or explosive limits       |                             |
| Upper                                  | No data available           |
| Lower                                  | No data available           |
| Vapor Pressure                         | No information available    |
| Vapor Density                          | Not applicable              |
| Relative Density                       | 0.86                        |
| Solubility                             | No information available    |
| Partition coefficient; n-octanol/water | No data available           |
| Autoignition Temperature               | Not applicable 265 °C       |
| Decomposition Temperature              | No information available    |
| Viscosity                              | Not applicable              |
| Molecular Formula                      | C18 H39 N                   |
| Molecular Weight                       | 269.51                      |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactive Hazard</b>                  | None known, based on information available                                     |
| <b>Stability</b>                        | Stable under normal conditions.  |
| <b>Conditions to Avoid</b>              | Incompatible products.   |
| <b>Incompatible Materials</b>           | Acids, Acid anhydrides, Acid chlorides, copper                                 |
| <b>Hazardous Decomposition Products</b> | Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.                                       |
| <b>Hazardous Reactions</b>              | None under normal processing.  |

## 11. Toxicological information

### Acute Toxicity

#### Product Information

|                    |   |
|--------------------|---|
| <b>Oral LD50</b>   | Category 4. ATE = 300 - 2000 mg/kg.   |
| <b>Dermal LD50</b> | Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. |
| <b>Mist LC50</b>   | Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.     |

#### Component Information

| Component        | LD50 Oral                             | LD50 Dermal | LC50 Inhalation |
|------------------|---------------------------------------|-------------|-----------------|
| n-Octadecylamine | 1000 mg/kg ( Rat ) 2395 mg/kg ( Rat ) | Not listed  | Not listed      |

**Toxicologically Synergistic Products** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                        |  |
|------------------------|--|
| <b>Irritation</b>      | Causes severe irritation and or burns  |
| <b>Sensitization</b>   | No information available   |
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. |

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico |
|-----------|--------|------|-----|-------|------|--------|
|           |        |      |     |       |      |        |

|   |  |            |            |            |            |            |
|---|--|------------|------------|------------|------------|------------|
| n-Octadecylamine                                  | 124-30-1   | Not listed | Not listed | Not listed | Not listed | Not listed |
| <b>Mutagenic Effects</b>                          | No information available   |            |            |            |            |            |
| <b>Reproductive Effects</b>                       | No information available.  |            |            |            |            |            |
| <b>Developmental Effects</b>                      | No information available.  |            |            |            |            |            |
| <b>Teratogenicity</b>                             | No information available.  |            |            |            |            |            |
| <b>STOT - single exposure</b>                     | None known   |            |            |            |            |            |
| <b>STOT - repeated exposure</b>                   | Eyes Skin  |            |            |            |            |            |
| <b>Aspiration hazard</b>                          | No information available   |            |            |            |            |            |
| <b>Symptoms / effects, both acute and delayed</b> | No information available   |            |            |            |            |            |
| <b>Endocrine Disruptor Information</b>            | No information available   |            |            |            |            |            |
| <b>Other Adverse Effects</b>                      | The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information. |            |            |            |            |            |

## 12. Ecological information

### Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

| Component        | Freshwater Algae | Freshwater Fish                                   | Microtox                                 | Water Flea |
|------------------|------------------|---|--|------------|
| n-Octadecylamine | Not listed       | >0.01-0.1 mg/L LC50 96 h<br>(Pimephales promelas) | EC50 = 3 mg/L 8 h<br>EC50 = 3 mg/L 120 h | Not listed |

**Persistence and Degradability** based on information available. May persist

**Bioaccumulation/ Accumulation** No information available.

**Mobility** . Will likely be mobile in the environment due to its water solubility.

| Component        | log Pow |
|------------------|---------|
| n-Octadecylamine | 6       |

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

### DOT

**UN-No** UN3077  
**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s  
**Proper technical name** n-Octadecylamine  
**Hazard Class** 9  
**Packing Group** III

### TDG

**UN-No** UN3077  
**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III

### IATA

**UN-No** UN3077  
**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s  
**Hazard Class** 9  
**Packing Group** III

**IMDG/IMO**

UN-No UN3077  
 Proper Shipping Name Environmentally hazardous substance, solid, n.o.s  
 Hazard Class 9  
 Packing Group III

**15. Regulatory information****International Inventories**

| Component        | TSCA | DSL | NDSL | EINECS    | ELINCS | NLP | PICCS | ENCS | AICS | IECSC | KECL |
|------------------|------|-----|------|-----------|--------|-----|-------|------|------|-------|------|
| n-Octadecylamine | X    | X   | -    | 204-695-3 | -      |     | X     | X    | X    | X     | X    |

**Legend:**

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

TSCA 12(b) Not applicable

SARA 313 Not applicable

**SARA 311/312 Hazardous Categorization**

|                                   |     |
|-----------------------------------|-----|
| Acute Health Hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire Hazard                       | No  |
| Sudden Release of Pressure Hazard | No  |
| Reactive Hazard                   | No  |

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration  
Not applicableCERCLA  
Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

**U.S. Department of Transportation**

|                             |   |
|-----------------------------|---|
| Reportable Quantity (RQ):   | N |
| DOT Marine Pollutant        | N |
| DOT Severe Marine Pollutant | N |

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations**

Mexico - Grade No information available

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2B Toxic materials  
E Corrosive material  
D1B Toxic materials

**16. Other information**

Prepared By Regulatory Affairs  
Thermo Fisher Scientific  
Email: EMSDS.RA@thermofisher.com

Creation Date 22-Sep-2009

Revision Date 10-Feb-2015

Print Date 10-Feb-2015

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a 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 material or in any process, unless specified in the text.

**End of SDS**