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## Material Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifiers

Product name 11-Aminoundecanoic acid  
Product number A011008  
Brand 3ASenrise  
CAS number 2432-99-7

#### 1.2 Details of the supplier of the safety data sheet

Company: Anhui Senrise Technology Co., Ltd.  
Address: No.88 Weisan Road, High-Tech Industrial Development Zone, Anqing, Anhui  
Post code: 246003  
Tel: 400-005-6266  
Fax: 0556-5555368  
Email: service@3asenrise.com

#### 1.3 Emergency telephone

Emergency telephone: 0556-5500208

#### 1.4 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For R&D use only. Not for pharmaceutical, household or other uses.

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2.2 GHS label elements, including precautionary statements

##### Pictogram

**Signal word:** No data available

##### Hazard statement(s)

H402 Harmful to aquatic life.

##### Precautionary statement(s)

##### Prevention

P273 Avoid release to the environment.

##### Response

No data available

##### Storage

No data available

##### Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Physical and chemical hazards

No data available

## 2.4 Health hazards

No data available

## 2.5 Environmental hazards Code

H402 Harmful to aquatic life.

## 2.6 Other hazards

No data available

# 3 COMPOSITION/INFORMATION ON INGREDIENTS

## Substance / Mixture: Substance

### 3.1 Substance

|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Name             | 11-Aminoundecanoic acid                                       |
| Formula          | C <sub>11</sub> H <sub>23</sub> N <sub>2</sub> O <sub>2</sub> |
| Molecular Weight | 201.31                                                        |
| CAS              | 2432-99-7                                                     |
| Concentration    | 97%                                                           |

# 4 FIRST AID MEASURES

## 4.1 Description of first aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

No data available.

# 5 FIREFIGHTING MEASURES

## 5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NO<sub>x</sub>)

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

# 6 ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

## 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

## 6.4 Reference to other section

For disposal see section 13.

## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Long term storage: RT

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No data available.

### 8.2 Personal protective equipment

#### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

#### Body protection

Flame retardant antistatic protective clothing.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

#### Control of environmental exposure

Do not let product enter drains. Risk of explosion.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| a) Appearance                                   | White to off-white solid |
| b) Odor                                         | No data available        |
| c) pH                                           | No data available        |
| d) Melting point/freezing point                 | 188 – 191 ° C            |
| e) Initial boiling point and boiling range      | No data available        |
| f) Upper/lower flammability or explosive limits | No data available        |
| g) Flash point                                  | No data available        |
| h) Evaporation rate                             | No data available        |
| i) Vapor pressure                               | No data available        |
| j) Vapor density                                | No data available        |
| k) Density                                      | No data available        |

|                                           |                             |
|-------------------------------------------|-----------------------------|
| l) Water solubility                       | 0.8 g/l at 25 ° C – soluble |
| m) Partition coefficient: n-octanol/water | No data available           |
| n) Autoignition temperature               | > 360 ° C at 1,013.25 hPa   |
| o) Decomposition temperature              | 180 –240 ° C                |
| p) Flammability                           | No data available           |

## **10 STABILITY AND REACTIVITY**

### **10.1 Chemical stability**

No data available.

### **10.2 Conditions to avoid**

No data available.

### **10.3 Incompatible materials**

Strong bases

### **10.4 Hazardous decomposition products**

In the event of fire: see section 5.

## **11 TOXICOLOGICAL INFORMATION**

### **11.1 Acute toxicity**

LD50 Oral

– Rat – female – 14,700 – 21,500 mg/kg

LC50 Inhalation

No data available

LD50 Dermal

No data available

### **11.2 Skin corrosion/irritation**

Skin – Rabbit Result: No skin irritation – 23 h

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

Eyes – Rabbit Result: No eye irritation – 7 d

### **11.4 Respiratory or skin sensitization**

Maximization Test – Guinea pig Result: Does not cause skin sensitization.

### **11.5 Germ cell mutagenicity**

Hamster ovary Result: negative OECD Test Guideline 484 Mouse – male Result: negative

### **11.6 Carcinogenicity**

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (11- aminoundecanoic acid) 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 IAR

### **11.7 Reproductive toxicity**

No data available

### **11.8 Specific target organ toxicity - single exposure**

No data available

### **11.9 Specific target organ toxicity - repeated exposure**

No data available

### **11.10 Aspiration hazard**

no data available.

### **11.11 Additional Information**

RTECS: YQ2293000

## **12 ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

Toxicity to fish:

static test LC50 – Danio rerio (zebra fish) – > 833 mg/l – 96 h

Toxicity to daphnia and other aquatic:

static test EC50 – Daphnia magna (Water flea) – > 350 mg/l – 48 h

Toxicity to algae:

static test EC50 – Pseudokirchneriella subcapitata – 53 mg/l – 72 h

Toxicity to bacteria:

Growth inhibition EC50 – Pseudomonas putida – 1.5 mg/l – 16 h

## **12.2 Persistence and degradability**

Biodegradability aerobic – Exposure time 28 d Result: 77 % – Readily biodegradable.

## **12.3 Bioaccumulative potential**

No data available

## **12.4 Mobility in soil**

No data available

## **12.5 Other adverse effects**

No data available

# **13 DISPOSAL CONSIDERATIONS**

## **13.1 Waste treatment methods**

### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Observe all federal, state and local regulations when disposing of the substance.

### **Contaminated packaging**

Disposal must be made according to official regulations.

# **14 TRANSPORT INFORMATION**

## **14.1 UN number**

ADR/RID: – IMDG: – IATA: –

## **14.2 UN proper shipping name**

ADR/RID: Not applicable

IMDG: Not applicable

IATA-DGR: Not applicable

## **14.3 Transport hazard class(es)**

ADR/RID: – IMDG: – IATA: –

## **14.4 Packaging group**

ADR/RID: – IMDG: – IATA: –

## **14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

## **14.6 Special precautions for user**

No data available

# **15. REGULATORY INFORMATION**

## **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Applicable regulations

Please pay attention to waste disposal and meet the requirements of local regulations.

# **16. OTHER INFORMATION**

## **Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

CAS: Chemical Abstracts Service (division of the American Chemical Society)

**Further information**

The above safety technical information is for reference only, because many physical and chemical properties are not entirely clear. Please consult information carefully before use and use after confirmation.

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