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## Material Safety Data Sheet

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

#### **1.1 Product identifiers**

Product name3-ThiophenecarbonitrileProduct numberE020916Brand3ASenriseCAS number1641-09-4

## 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

Flammable liquids (Category 4), H227

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Skin corrosion/irritation (Category 2), H315

Serious eye damage/eye irritation (Category 2A), H319

Specific target organ toxicity - single exposure (Category 3), respiratory tract irritation, H335

2.2 GHS label elements, including precautionary statements Pictogram



Signal word: Warning Hazard statement(s) H315 Causes skin irritation. H319 Causes serious eye irritation. H227 Combustible liquid. H335 May cause respiratory irritation. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. **Precautionary statement(s)** Prevention P280 Wear protective gloves/protective clothing/eye protection/face protection. P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P270 Do not eat, drink or smoke when using this product. P264 Wash hands thoroughly after handling. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. Response P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 IF eye irritation persists: Get medical advice/attention. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P302+P352+P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. Storage P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. Disposal P501 Dispose of contents/ container to an approved waste disposal plant. 2.3 Physical and chemical hazards H227 Combustible liquid. 2.4 Health hazards H315 Causes skin irritation. H319 Causes serious eve irritation. H302 Harmful if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H335 May cause respiratory irritation. 2.5 Environmental hazards Code No data available 2.6 Other hazards No data available **3 COMPOSITION/INFORMATION ON INGREDIENTS** Substance / Mixture: Substance

## 3.1 Substance

Name Formula 3-Thiophenecarbonitrile C5H3NS

Molecular Weight	109.15
CAS	1641-09-4
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

Water Foam Carbon dioxide (CO2) Dry powder

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Hydrogen cyanide (hydrocyanic acid) Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or

## 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 wetbrushing 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	Colorless to light yellow liquid
b)	Odor	No data available
c)	pH	No data available
d)	Melting point/freezing point	No data available
e)	Initial boiling point and boiling range	82 ° C at 13 hPa - lit.
	Upper/lower flammability or explosive nits	No data available
g)	Flash point	85.56 $^\circ$ C - closed cup
h)	Evaporation rate	No data available
i)	Vapor pressure	No data available
j)	Vapor density	No data available
k)	Density	1.2 g/cm3 at 25 ° C - lit.
1)	Water solubility	No data available
m)	Partition coefficient: n-octanol/water	No data available
n)	Autoignition temperature	No data available
0)	Decomposition temperature	No data available
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 oxidizing agents

#### **10.4 Hazardous decomposition products**

In the event of fire: see section 5.

## **11 TOXICOLOGICAL INFORMATION**

#### 11.1 Acute toxicity

LD50 Oral No data available LC50 Inhalation - 4 h - 11 mg/l - vapor LD50 Dermal

## - 1,100 mg/kg

## 11.2 Skin corrosion/irritation

No data available

#### 11.3 Serious eye damage/eye irritation

No data available

#### 11.4 Respiratory or skin sensitization

No data available

#### 11.5 Germ cell mutagenicity

No data available

#### 11.6 Carcinogenicity

No data available

#### **11.7 Reproductive toxicity**

No data available

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

Inhalation - May cause respiratory irritation.

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

No data available

#### 11.10 Aspiration hazard

no data available.

#### **11.11 Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **12 ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Toxicity to fish: No data available Toxicity to daphnia and other aquatic: No data available Toxicity to algae: No data available Toxicity to bacteria: No data available **12.2 Persistence and degradability** No data available **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 dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

#### 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.

Anhui Senrise Technology Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. More terms of use, see invoice information for details.

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