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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 m-Xylene  
Product number D050836  
Brand 3ASenrise  
CAS number 108-38-3

#### 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 3), H226  
Acute toxicity, Oral (Category 5), H303  
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  
Aspiration hazard (Category 1), H304 Short-term (acute) aquatic hazard (Category 2), H401  
Long-term (chronic) aquatic hazard (Category 3), H412

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

##### Pictogram



Signal word: Danger

## **Hazard statement(s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H226 Flammable liquid and vapour.

H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

H303 May be harmful if swallowed.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

H312+H332 Harmful 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.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash hands thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P271 Use only outdoors or in a well-ventilated area.

### **Response**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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.

P331 Do NOT induce vomiting.

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.

### **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**

H226 Flammable liquid and vapour.

## **2.4 Health hazards**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

H303 May be harmful if swallowed.

## **2.5 Environmental hazards Code**

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

## **2.6 Other hazards**

No data available

# **3 COMPOSITION/INFORMATION ON INGREDIENTS**

## **Substance / Mixture: Substance**

### **3.1 Substance**

Name	m-Xylene
Formula	C <sub>8</sub> H <sub>10</sub>
Molecular Weight	106.17
CAS	108-38-3
Concentration	99%

# **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**

Carbon dioxide (CO<sub>2</sub>) Foam Dry powder

## **5.2 Special hazards arising from the substance or mixture**

Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours possible in the event of fire.

## **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	Colorless liquid
b) Odor	No data available
c) pH	No data available
d) Melting point/freezing point	-48.0 ° C at 1,013 hPa
e) Initial boiling point and boiling range	139.1 ° C at 1,013 hPa
f) Upper/lower flammability or explosive	Upper explosion limit: 7 %(V) Lower explosion

limits	limit: 1.1 %(V)
g) Flash point	27 ° C – closed cup
h) Evaporation rate	No data available
i) Vapor pressure	13.78 hPa at 29.4 ° C
j) Vapor density	No data available
k) Density	0.86 g/cm <sup>3</sup> at 25 ° C
l) Water solubility	146 g/l at 25 ° C – partly soluble
m) Partition coefficient: n-octanol/water	No data available
n) Autoignition temperature	528.0 ° C at 1,013 hPa
o) 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**

rubber, various plastics

### **10.4 Hazardous decomposition products**

In the event of fire: see section 5.

## **11 TOXICOLOGICAL INFORMATION**

### **11.1 Acute toxicity**

LD50 Oral

– Rat – male – 3,523 mg/kg

LC50 Inhalation

– Rat – male and female – 4 h – 27.12 mg/l – vapor

LD50 Dermal

– Rabbit – male – 12,126 mg/kg

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

Skin – Rabbit Result: Moderate skin irritation – 4 h Remarks: Drying-out effect resulting in rough and chapped skin. After long-term exposure to the chemical: Dermatitis

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

Eyes – Rabbit Result: Severe eye irritation – 24 h

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

Local lymph node assay (LLNA) – Mouse Result: negative

### **11.5 Germ cell mutagenicity**

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: Regulation (EC) No. 440/2008, Annex, B.19 Result: negative Test Type: Ames test Test system: Salmonella

### **11.6 Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

### **11.7 Reproductive toxicity**

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

### **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**

Repeated dose toxicity – Rat – male and female – Oral – 90 Days – NOAEL (No observed adverse effect level) – 200 mg/kg RTECS: ZE2275000 Liver injury may occur. Kidney injury may occur. Blood disorders, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, narcosis, Lung irritation, chest pain, pulmonary edema, Central nervous system depression, Dermatitis, Gastrointestinal disturbance To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Kidney –

### **12 ECOLOGICAL INFORMATION**

#### **12.1 Toxicity**

Toxicity to fish:

static test LC50 – Oncorhynchus mykiss (rainbow trout) – 2.60 mg/l – 96 h

Toxicity to daphnia and other aquatic:

No data available

Toxicity to algae:

static test EC50 – Pseudokirchneriella subcapitata – 4.36 mg/l – 73 h

Toxicity to bacteria:

No data available

#### **12.2 Persistence and degradability**

Biodegradability aerobic – Exposure time 28 d Result: 98 % – Readily biodegradable. Chemical Oxygen Demand \ (COD\ ) 2.62 g/g Theoretical oxygen 3.17 g/g demand Ratio BOD/ThBOD 80 %

#### **12.3 Bioaccumulative potential**

Bioaccumulation Oncorhynchus mykiss (rainbow trout) – 56 d at 10 ° C – 1.3 mg/l (m-xylene)

Bioconcentration factor (BCF): 7.4 – 18.5 Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

#### **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: 1307 IMDG: 1307 IATA: 1307

#### **14.2 UN proper shipping name**

ADR/RID: M-XYLENE

IMDG: M-XYLENE

IATA-DGR: m-Xylene

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

ADR/RID: 3 IMDG: 3 IATA: 3

### **14.4 Packaging group**

ADR/RID: III IMDG: III IATA: III

### **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

Regulations on the Control over Safety of Dangerous Chemicals.

This product is included in the list of dangerous chemicals.

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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