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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 3, 4-Benzopyrene

Product number W610693
Brand 3ASenrise
CAS number 50-32-8

## 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, Anging, Anhui

Post code: 246003 Tel: 400-005-6266 Fax: 0556-555368

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

Skin corrosion/irritation (Category 3), H316

Skin sensitization (Category 1), H317

Germ cell mutagenicity (Category 1B), H340

Carcinogenicity (Category 1B), H350

Reproductive toxicity (Category 1B), H360

Short-term (acute) aquatic hazard (Category 1),  $\rm H400$ 

Long-term (chronic) aquatic hazard (Category 1), H410

# 2.2 GHS label elements, including precautionary statements

## **Pictogram**







# Signal word: Danger Hazard statement(s)

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

## Precautionary statement(s)

#### Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

## Response

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage. Hazardous to the aquatic environment

P308+P313 IF exposed or concerned: Get medical advice/attention.

## **Storage**

P405 Store locked up.

## **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

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

#### 2.5 Environmental hazards Code

H400 Very toxic to aquatic life.

H410 Very toxic 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 3, 4-Benzopyrene

Formula C20H12
Molecular Weight 252.32
CAS 50-32-8
Concentration 98%

#### **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 Combustible. 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

and the property of the proper								
a)	Appearance	Yellow to yellow green solid						
b)	Odor	weakly aromatic						
c)	рН	No data available						
d)	Melting point/freezing point	177 - 180 ° C - 1it.						
e)	Initial boiling point and boiling range	495 ° C - 1it.						
f)	Unner/lower flammability or explosive							

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limits		1	NO	uata	avallable

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	1.35 g/cm3

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.

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## 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 ava

No data available

LC50 Inhalation

No data available

LD50 Dermal

No data available

#### 11.2 Skin corrosion/irritation

No data available

## 11.3 Serious eye damage/eye irritation

No data available

## 11.4 Respiratory or skin sensitization

May cause allergic skin reaction.

## 11.5 Germ cell mutagenicity

May cause genetic defects. Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: positive Remarks: (Lit.) Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system

## 11.6 Carcinogenicity

No data available

#### 11.7 Reproductive toxicity

May damage the unborn child. May damage fertility.

## 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: DJ3675000 burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting 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:

EC50 - Daphnia magna (Water flea) - 0.25 mg/l - 48 h Remarks: (above the solubility limit in the test medium) (ECOTOX Database)

Toxicity to algae:

static test ErC50 - Scenedesmus acutus - 0.005 mg/1 - 72 h

Toxicity to bacteria:

No data available

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

Bioaccumulation Lepomis macrochirus (Bluegill) - 48 h - 0.0005 mg/l(benzo[a]pyrene)

Bioconcentration factor (BCF): 3,208

#### 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: 3077 IMDG: 3077 IATA: 3077

## 14.2 UN proper shipping name

ADR/RID: 3, 4-BENZOPYRENE IMDG: 3, 4-BENZOPYRENE IATA-DGR: 3, 4-Benzopyrene

#### 14.3 Transport hazard class(es)

ADR/RID: 9 IMDG: 9 IATA: 9

## 14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

#### 14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

## 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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