

MATERIAL SAFETY DATA SHEET (M S D S)



Version 7.0 (2021-9-1)

Updated version 6.0 (2017-1-1)

1. CHEMICAL INFORMATION AND MANUFACTURER IDENTIFICATION

1.1 Chemical information

Chemical name Food Additive Indigo Carmine

Chemical use Food color, which can be used in food, drugs,

Cosmetics, etc.

1.2 Manufacturer information

Head office nameShanghai Dyestuffs Research Institute Co., LtdHead office addressNo.1238 ZhongShan Rd. (N), Shanghai, China

Factory name

Shanghai Dyestuffs Research Institute Co., Ltd

Nantong Branch

Factory address No.28, Tongda Road, NETDA, Nantong City, Jiangsu,

China

Zip code 200065

Telephone number 008621-56086210; 008621-56093493

Fax 008621-56083326

E-mail market@shi-tou.com

1.3 Emergency phone 008621-56093493

2. RISK CODES

2.1 Regulations of the People's Republic of China

According to the «Catalogue of Hazardous Chemicals (Ver. 2018)», This product does not belong to dangerous goods.

2.2 GHS Hazard category Non hazardous substances or mixtures.

2.3 GHS Label elements Non hazardous substances or mixtures.

2.4 Physical and chemical hazards No data available.

2.5 Health hazards No data available.

2.6 Environmental hazards No data available.

2.7 Other hazards No data available.

2.8 Emergency overview

Main symptoms May cause skin allergic reactions.

Inhalation may cause allergies, asthma symptoms, or

breathing difficulties.

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Emergency measure If in contact with skin, rinse the contact area with

soap and water.

If accidental inhalation causes difficulty breathing,

transfer the victim to fresh air and maintain a comfortable resting position for breathing.

If the symptoms are severe, seek medical attention

promptly.

3. COMPONENT/INFORMATION ON INGREDIENTS

3.1 Component It's an organic compound.

3.2 Specific information

Compound name 5,5'- indigo disulfonate disodium salt.

Synonyms Indigo Carmine

Formula C 16 H 8 N 2 N a 2 O 8 S 2

Formula weight 466.36

CAS-No. 860-22-0

EINEC-No. 212-728-8

Color Index C.I.73015

C.I.FOOD BLUE 1

4. FIRST AID MEASURES

4.1 Necessary first aid measures

Inhalation Move the victim to fresh air, maintain clear breathing,

and rest. If you feel unwell, please seek medical

attention.

Skin contact Immediately remove/remove all contaminated

clothing. Wash skin/shower with water. If skin

irritation or rash occurs: seek medical attention.

Eye contact Immediately lift the eyelids and rinse with plenty of

flowing water for at least 15 minutes; If there is still a

stimulating reaction, seek medical attention.

Ingestion When consuming a large amount, induce vomiting and

rinse the mouth. Seek medical attention if necessary.

4.2 Acute/delayed effects Refer to Part 11 for detailed information.

4.3 Main symptoms/health impact Refer to Part 11 for detailed information.

5. FIREFIGHTING MEASURES

5.1 Fire extinguishing methods /extinguishing agents

In case of fire, use water spray, foam, dry powder, carbon dioxide and other fire fighting

equipment and methods.

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- 5.2 Special hazards
- 5.3 Special firefighting methods Protective equipment for firefighters

No specific fire or explosion hazards.

Firefighters should wear appropriate protective equipment and matching self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Protective measures. equipment, and emergency response procedures for operators

Operators use personal protective equipment such as gloves, a n d self-contained goggles, unrelated Prevent and unprotected apparatus. personnel from entering the scene. Prevent the generation of dust and avoid inhalation. Maintain a well ventilated environment. The leaked product poses a risk of slipping. Evacuate personnel to a safe area.

6.2 Environmental protection measures

Prevent product diffusion and contact with soil, water sources, ditches, and drainage pipelines to avoid environmental pollution. If environmental pollution occurs, relevant departments should be notified in a timely manner.

6.3 Methods for containment and elimination of leaked materials

Sprinkle water to keep the site moist and prevent the generation of dust. Sweep or shovel it into a marked closed container and dispose of it through an approved waste disposal department.

from occurring

6.4 Prevent secondary hazards Store according to safe storage conditions and follow good industrial and safety operating practices.

7. HANDLING AND STORAGE

7.1 Precautions for operation

Occupational health

Avoid swallowing or inhaling; Good industrial hygiene habits and local regulations should be followed during operation.

Operation requirements

Prevent the generation of dust and provide suitable exhaust equipment in areas where dust may generated.

7.2 Storage

Storage conditions

Fire prevention measures Isolation measures

Packing material

Store in a ventilated and dry warehouse.

Equip necessary fire-fighting facilities.

No special measures need to be taken.

No special measures need to be taken.

8. EXPOSURE CONTUOLS/PERSONAL PROTECTION

8.1 Engineering control methods

Install appropriate air ventilation equipment on the site to control dust concentration.

8.2 Personal protective equipment

Respiratory system protection Wear a dust mask that complies with local regulations and standards.

Hand protection

Wear work gloves that comply with local regulations and standards.

Eye protection

Wear protective eyes that comply with local

—Ponceau 4R MSDS— 3-3 regulations and standard.

Skin and body protection

Wear work protective clothing that complies with local regulations and standards.

9. PHYSICOCHEMICAL PROPERTIES

9.1 General information

Appearance Powder or particle.

Color Dark violet to dark puce.

Odour None.

9.2 Health, safety, and environmental information

pH 6.5—8.5 10g/L

Melting/freezing point No data available.

Initial boiling point and No data available.

boiling range

Flash point No data available.

Explosion limit No data available.

Vapour pressure/density No data available.

Density 1.01 g/c m^3

Water solubility 160-200 g/L $25 ^{\circ}\text{C}$

9.3 Other information

Partition coefficient: No data available.

N-octanol/water

Auto-ignition temperature No data available.

Decomposition temperature No data available.

Oxidability None.

10. STABILITY AND REACTIVITY

clumping in humid environments.

10.2 Hazardous reactions No data available.

10.3 Conditions to avoid High temperature and humid environment.

10.4 Forbidden substances Strong reducing agent, strong oxidizing agent,

acid, alkali, etc.

10.5 Dangerous decomposition Carbon oxides, nitrogen oxides, sulfur oxides,

products etc.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity LD50 Oral-Mouse-2000mg/kg

11.2 Skin irritation or corrosion Non irritants (rabbit)11.3 Eye irritation or corrosion Non irritants (rabbit)

11.4 Respiratory or skin May cause respiratory or skin allergic

sensitization reactions.

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 systemic No data available.

toxicity-single exposure

11.9 Specific target organ systemic No data available.

toxicity-repeated exposure

11.10 Inhalation hazards

May cause respiratory allergies or irritation.

12. ECOLOGICAL INFORMATION

12.1 Environmental Impact/

Ecotoxicity

Persistence/Degradation

No data available.

Potential bioaccumulation No data available.

(BCF)

Mobility in soil

No data available.

For water fleas and other

No data available.

aquatic invertebrates toxicity of vertebrates

12.2 Other ecological information

As

 $\leq 1.0 \text{ mg/kg}$

Ph

 $\leq 1.0 \cdot 0 \, \text{mg} / k \, \text{g}$

13. WASTE DISPOSAL

13.1 Residual waste

Hand over waste to qualified waste disposal departments for disposal and comply with local waste disposal regulations.

13.2 Contaminated containers and packaging

Hand over contaminated containers and packaging to qualified waste disposal

departments for disposal and comply with local

waste disposal regulations.

14. TRANSPORT INFORMATION

14.1 UN number

European Land Transport No data available.

Safety Regulations

International Maritime Safety Regulations

No data available.

ICAO TI

No data available.

14.2 UN Transport Name

European Land Transport Non dangerous goods.

Safety Regulations

International Maritime

Non dangerous goods.

Safety Regulations

ICAO TI

Non dangerous goods.

14.3 UN Transport Hazard

Categories

European Land Transport No data available.

Safety Regulations

—Ponceau 4R MSDS— 3-5 No data available.

International Maritime

Safety Regulations

ICAO TI No data available.

14.4 Packaging Group

European Land Transport No data available.

Safety Regulations

International Maritime No data available.

Safety Regulations

ICAO TI No data available.

14.5 Marine pollutants None.

14.6 Transportation precautions During transportation, it must be rainproof,

moisture-proof, and sun proof, and must not be mixed with toxic, harmful or other substances.

15. REGULATORY INFORMATION

This product complies with the national standards of the People's Republic of China GB $28317-2012\,$ $_{\circ}$

Users should make sure that this product is fully suitable for their intended use before use, and use it in accordance with the relevant national regulations.

This product is not listed in the Hazardous Chemicals Catalogue (2018 $\rm Edition$).

The transportation, storage, use, and disposal of this product should comply with local regulatory requirements.

16. OTHER INFORMATION

When using this substance, strict adherence to local regulations is required.

The above information is considered correct, but does not include all information and is only used as a guide. The information in this document is based on the company's current knowledge and experience, and is applicable to this product in terms of correct safety instructions. This information does not represent a guarantee of the nature and performance of this product.

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