



Safety Data Sheet

Date of Issue: 29.08.2024

Date of Expiry: 29.08.2029

1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : ECP Limited
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Product Name	Indigo Carmine
Product Code	27677
CAS No.	860-22-0

Recommended use : Laboratory Investigations

2: Hazard's identification

GHS classification of the substance/mixture :- **Non Dangerous Goods**

Signal Word – **Warning**

Hazard Statement (s) **H302 Harmful if swallowed.**



Pictogram (s)

Precautionary statement – **P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.**

Prevention Precautionary statement – **P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth.**

Response Precautionary statement – Disposal **P501 Dispose of contents/container to a approved waste disposal plant.**

3: Composition/information on ingredients

Indigo Carmine Cas 860-22-0 - 100%

Name	CAS	Proportion
Indigo Carmine	860-22-0	100%

4: First aid measures

Inhalation - If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion - Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice.

Skin - Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.

Eye contact - Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.

First Aid Facilities - Maintain eyewash fountain and safety shower in work area.

Advice to Doctor - Treat symptomatically based on judgement of doctor and individual reactions of the patient.

5: Firefighting measures

Specific Methods - Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. May burn but do not ignite readily. Small fire: Use dry chemical, CO₂, water spray or foam. Large fire: Use water spray, fog or foam.

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6: Accidental release measures

Personal Precautions - Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms

Personal Protection - Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages - . Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations

Environmental Precautions - . Avoid release to the environment.

7: Handling and storage

Precautions for Safe Handling - Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Conditions for safe storage, including any incompatibilities - Keep container tightly closed in a dry, well-ventilated place away from direct sunlight. Keep away from light. Protect from freezing. Keep containers protected against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dusts, solids). Store at room temperature (15 - 25 °C).

8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

Component	CAS No.	Value	Control parameters	Basis
Indigo Carmine			No controls established	Product non hazardous

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

Form :- Solid

Appearance :- Dark-blue powder with coppery luster. Solutions are blue or bluish-purple colour. The colour of aqueous solutions fade on standing.

Odour :- Light odour to odourless

Melting Point :- > 300 °C

Solubility in Water :- ~10 g/L @ 25 °C

Solubility in Organic Solvents:- Slightly soluble in alcohol. Practically insoluble in most other organic solvents.

pH :- ~5.3 (10 g/l H₂O, 20 °C)

Volatile Component :- 0%

Flammability :- Combustible

Molecular Weight :-466.36g/mol

10: Stability and reactivity

Chemical Stability Stable under ordinary conditions of use and storage. May decompose on exposure to light.

Conditions to Avoid - Light and incompatibles

Incompatible Materials - Oxidising agents, nitric acid.

Hazardous Decomposition Products - Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides.

Hazardous Polymerization Will not occur.

11: Toxicological information

Toxicology Information – To the best of our knowledge, the toxicological properties of this material have not been fully investigated. No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur.

Acute Toxicity – Oral- LD50 (rat): 2000 mg/kg.

Ingestion - Harmful if swallowed. May cause irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

Inhalation - May cause respiratory tract irritation, nausea and vomiting.

Skin - May cause slight irritation.

Eye - May cause slight irritation. This product contains a cationic dye. Similar dyes have caused permanent injury to the cornea and conjunctiva in document exposure cases with human or rabbit eyes. May impair vision.

Respiratory sensitisation - Not classified based on available information.

Skin Sensitisation - Not classified based on available information.

Germ cell mutagenicity Carcinogenicity - Not classified based on available information.

Reproductive Toxicity - Not classified based on available information.

STOT-single exposure - Not classified based on available information.

STOT-repeated exposure - Not classified based on available information.

Mutagenicity – Not classified based on available information.

12: Ecological information

Ecological Information - No ecological problems are to be expected when the product is handled and used with due care and attention.

Ecotoxicity - Quantitative data on the ecological effect of this product are not available.

13: Disposal considerations

Disposal Considerations - Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations

14: Transport Information Table

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	NA	Nil	Nil
14.2	UN Proper Shipping name	NA	Nil	Nil
14.3	Transport Hazard Class	NA	Nil	Nil
14.4	Packaging group	NA	Nil	Nil
14.5	Environmental Hazards	NA	Nil	Nil
14.6	Special precautions for user	Nil		

15: Regulatory information

All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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