



## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name: **INDIGO CARMINE**

CAS-No.: **860-22-0**

Product Number: **A68366**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR,

UNITED KINGDOM

Telephone: +44 (0)845 1200 506 Fax: +44 (0)161 367 2140

Email: [enquiries@philipharris.co.uk](mailto:enquiries@philipharris.co.uk)

#### 1.4 Emergency telephone number

Emergency Phone #: **+44 (0)845 1200 506**

### 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture:** No data Available

**2.2 Label elements:** No data available

**2.3 Other hazards** – no data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

**Disodium 5,5'-(2-(1,3-dihydro-3-oxo-2H-indazol-2-ylidene)-1,2-dihydro-3H-indol-3-one)disulphonate** (Synonyms : Acid Blue 74, Indigocarmine, Indigo-5,5'-disulfonic aciddisodium salt)

Formula: **C<sub>16</sub>H<sub>8</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>8</sub>S<sub>2</sub>**

Molecular Weight: **466.35g/mol**

CAS-No.: **860-22-0**

EC-No.: **212-728-8**

### 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.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed:** no data available

**4.3 Indication of immediate medical attention and special treatment needed:** no data available

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture:** no data available

**5.3 Precautions for fire-fighters:** Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information:** no data available

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

**6.2 Environmental precautions:** Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections:** For disposal see section 13.

## 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling:** Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**7.2 Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive.

**7.3 Specific end uses:** no data available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:** Contains no substances with occupational exposure limit values.

### 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:** Safety glasses

**Skin protection:** The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

**Body Protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |                                                  |                                        |                            |
|--------------------------------------------------|----------------------------------------|----------------------------|
| a) Appearance:                                   | <b>Form:</b> Powder                    | <b>Colour:</b> Dark Violet |
| b) Odour:                                        | no data available                      |                            |
| c) Odour Threshold:                              | no data available                      |                            |
| d) pH:                                           | no data available                      |                            |
| e) Melting/freezing point:                       | Melting point/range: no data available |                            |
| f) Initial boiling point and boiling range:      | no data available                      |                            |
| g) Flash point:                                  | no data available                      |                            |
| h) Evaporation rate:                             | no data available                      |                            |
| i) Flammability (solid, gas):                    | no data available                      |                            |
| j) Upper/lower flammability or explosive limits: | no data available                      |                            |
| k) Vapour pressure:                              | no data available                      |                            |
| l) Vapour density:                               | no data available                      |                            |
| m) Relative density:                             | no data available                      |                            |
| n) Water solubility:                             | no data available                      |                            |
| o) Partition coefficient: n-octanol/water:       | no data available                      |                            |
| p) Autoignition temperature:                     | no data available                      |                            |
| q) Decomposition temperature:                    | no data available                      |                            |
| r) Viscosity:                                    | no data available                      |                            |
| s) Explosive properties:                         | no data available                      |                            |
| t) Oxidizing properties:                         | no data available                      |                            |

### 9.2 Other safety information

no data available

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** no data available

**10.2 Chemical stability:** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions:** no data available

**10.4 Conditions to avoid:** no data available

**10.5 Incompatible materials:** Strong oxidizing agents

**10.6 Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Sodium oxides

## 11. TOXICOLOGICAL INFORMATION

### 11.1 *Information on toxicological effects*

**Acute toxicity:** LD50 Oral - rat - 2,000 mg/kg

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

**Carcinogenicity:** rat – Subcutaneous Tumorigenic: Neoplastic by RTECS criteria. Tumorigenic: Tumors at site or application.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Genotoxicity in vitro - Histidine reversion (Ames)

Genotoxicity in vitro - Hamster – fibroblast- Cytogenetic analysis

Genotoxicity in vivo - mouse – Oral - Cytogenetic analysis

Genotoxicity in vivo - mouse – Intraperitoneal - Sister chromatid exchange

#### **Reproductive toxicity**

no data available

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

no data available

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

no data available

#### **Aspiration hazard**

no data available

#### **Potential health effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure:** no data available

**Additional Information:** RTECS: DU3000000

## 12. ECOLOGICAL INFORMATION

**12.1 *Toxicity*:** 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 *Results of PBT and vPvB assessment*:** no data available

**12.6 *Other adverse effects*:** no data available

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 *Waste treatment methods*

**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

### 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: 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 users*

no data available

### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.1 *Safety, health and environmental regulations/legislation specific for the substance or mixture*

no data available

#### 15.2 *Chemical Safety Assessment*

no data available

### 16. OTHER INFORMATION

Xn Harmful, R-phrases), R22 Harmful if swallowed., S-phrases), S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes.