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**MATERIAL SAFETY DATA SHEET**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifiers**

**Product name:** Erythrosin B  
**C.I. 45430** Acid Red 51  
**CAS number:** 16423-68-0  
**EINECS number:** 240-474-8  
**Product code:** DYE104  
**Brand:** Solmedia Ltd

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

**Identified uses:** PC21: Laboratory chemicals.

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

**Name of Supplier:** Solmedia Ltd.  
**Address of Supplier:** Unit 2, Vernon Drive  
Battlefield Enterprise Park  
Shrewsbury  
SY1 3TF  
UK  
**Telephone:** 0844 80 80 900  
**Email:** labsupplies@solmedialtd.com

**1.4 Emergency telephone number**

**Emergency Phone:** +44 (0)844 80 80 900

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification under CLP:**

Acute Tox. 4: H302; Aquatic Chronic 4: H413

**Most important adverse effects:**

Harmful if swallowed. May cause long lasting harmful effects to aquatic life.

**2.2 Label elements****Label elements under CLP:**

**Hazard statements:** H302: Harmful if swallowed.  
H413: May cause long lasting harmful effects to aquatic life.  
**Signal words:** Warning

**Hazard pictograms:** GHS07: Exclamation mark



**Precautionary statements:**

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P330: Rinse mouth.

## 2.3 Other hazards

**Other hazards:** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**PBT:** This product is not identified as a PBT/vPvB substance.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Chemical identity:** Erythrosin B C.I. 45430  
**CAS number:** 16423-68-0  
**EINECS number:** 240-474-8  
**Contains:** Formula: C<sub>20</sub>H<sub>6</sub>I<sub>4</sub>Na<sub>2</sub>O<sub>5</sub>  
Molecular weight: 879.86 g/mol

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

**Skin contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Inhalation:** No data available.

**Delayed / immediate effects:**  
No data available.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.

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

Not applicable.

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus.

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### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not discharge into drains or rivers.

#### **6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

Refer to section 13 of SDS.

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### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Hygroscopic.

**Suitable packaging:** Not applicable

## 7.3 Specific end use(s)

No special requirement.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No data available.

**DNEL / PNEC** No data available.

### 8.2 Exposure controls

#### Engineering measures:

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

#### Respiratory protection:

For nuisance exposures use type P1 (EU EN 143) or type P95 (US) particle respirator.

For higher level protection use type ABEK-P2 (EU EN 143) or type OV/AG/P99 (US) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Engineering measures:

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

#### Respiratory protection:

For nuisance exposures use type P1 (EU EN 143) or type P95 (US) particle respirator.

For higher level protection use type ABEK-P2 (EU EN 143) or type OV/AG/P99 (US) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection:

Full contact  
Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min 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.

**Eye protection:**

Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU) or NIOSH (US).

**Skin 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.

**Environmental:**

Do not let product enter drains. Prevent from entering in public sewers or the immediate environment.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State:</b>	Powder
<b>Colour:</b>	Dark red
<b>Melting point/range°C:</b>	315 °C at 978.5 hPa
<b>Flash point°C:</b>	182 °C - closed cup
<b>Part.coeff. n-octanol/water:</b>	log Pow: -1.163
<b>Relative density:</b>	0.625 - 0.731 g/cm <sup>3</sup>
<b>pH:</b>	6.4 at 30.3 °C

### 9.2 Other safety information

Not applicable

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## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Exposure to moisture.

**10.5 Incompatible materials**

Strong oxidising agents.

**10.6 Hazardous decomposition products**

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of hydrogen iodide. In combustion emits toxic fumes of sodium oxides.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Relevant hazards for substance:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data

**Symptoms / routes of exposure****Skin contact:** No data available.**Eye contact:** No data available.**Ingestion:** No data available.**Inhalation:** No data available.**Delayed / immediate effects:**

No data available.

**Other information:** Not applicable.

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**SECTION 12: Ecological information****12.1 Toxicity**

**Ecotoxicity values:**

Species	Test	Value	Units
FISH	96H LC50	500	mg/l

**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**

This product is not identified as a PBT/vPvB substance.

**12.6 Other adverse effects**

No data available.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

**Disposal operations:** Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Recovery operations:** Not applicable.

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

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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**SECTION 14: Transport information**

This product does not require a classification for transport.

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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

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## SECTION 16: Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

### Phrases used in s.2 and 3:

H302: Harmful if swallowed.

H413: May cause long lasting harmful effects to aquatic life.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Solmedia Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.