

# **SAFETY DATA SHEET**

Revision Date 26-December-2021 **Revision Number** 8

1. Identification

**Product Name Erythrosin B** 

Cat No.: AC409450000; AC409450250; AC409451000

CAS-No 16423-68-0

**Synonyms** Acid Red 51; C.I. 45430

**Recommended Use** Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor Manufacturer

Acros Organics Fisher Scientific Company Fisher Scientific One Reagent Lane One Reagent Lane 112 Colonnade Road. Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Ottawa, ON K2E 7L6, Tel: (201) 796-7100

Canada

Tel: 1-800-234-7437

**Emergency Telephone Number** For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11

Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Combustible Dusts Category 1

**Label Elements** 

Signal Word

Warning

**Hazard Statements** 

May form combustible dust concentrations in air

**Precautionary Statements** 

Prevention

### **Erythrosin B**

Keep container tightly closed

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Response

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

Storage

Store in a well-ventilated place. Keep container tightly closed

**Disposal** 

Dispose of contents/container to an approved waste disposal plant

### Other Hazards

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Spiro[isobenzofuran-1(3H),9-[9H]xanthen]-3-one,	16423-68-0	<=100
3,6-dihydroxy-2,4,5,7-tetraiodo-, sodium salt (1:2)		

## 4. First-aid measures

General Advice If symptoms persist, call a physician.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact**Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms/effects

Notes to Physician

None reasonably foreseeable.

Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media No information available

**Flash Point** 182 °C / 359.6 °F

Method - CC (closed cup)

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

Upper
Lower
Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
No data available
No information available
No information available

**Specific Hazards Arising from the Chemical** 

Fine dust dispersed in air may ignite.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen iodide. Sodium oxides.

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards211N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

**Environmental Precautions** Do not flush into surface water or sanitary sewer system.

**Methods for Containment and Clean** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed **Up** containers for disposal.

7. Handling and storage

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage.

Keep container tightly closed in a dry and well-ventilated place. Store under an inert

Keep container tightly closed in a dry and well-ventilated place. Store under an inert atmosphere. This product is hygroscopic. Protect from moisture. Incompatible Materials. Strong oxidizing agents.

# 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

### Personal protective equipment

**Eye Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Hand Protection Protective gloves

Glove material Breakthrough time Glove thickness Glove comments

Nitrile rubber See manufacturers - Splash protection only

Neoprene recommendations

Natural rubber

PVC

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, gloves with care avoiding skin contamination.

### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

### **Environmental exposure controls**

Prevent product from entering drains. Do not allow material to contaminate ground water system.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

# 9. Physical and chemical properties

Physical StatePowder SolidAppearanceDark redOdorOdorless

Odor Threshold
pH
6.4 (@ 30.3°C)
Melting Point/Range
Boiling Point/Range
No information available
No information available
No information available
182 °C / 359.6 °F
Method CC (closed cup)

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Density

0.625-0.731g/cm3 at 30.1°C

Specific Gravity

No information available

**Solubility** Soluble

Partition coefficient; n-octanol/water

No data available
Autoignition Temperature

Not applicable

Decomposition Temperature

No information available

ViscosityNot applicableMolecular FormulaC20 H6 I4 Na2 O5

Molecular Weight 879.85

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Hygroscopic. Moisture sensitive.

Conditions to Avoid Incompatible products. Exposure to moist air or water. Exposure to moisture.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen iodide, Sodium oxides

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

### **Erythrosin B**

# Product Information

Component Information
Component

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Spiro[isobenzofuran-1(3H),9-[9H]xa	Not listed	LD50 > 2000 mg/kg (Rat)	Not listed
nthen]-3-one,			
3,6-dihydroxy-2,4,5,7-tetraiodo-,			
sodium salt (1:2)			

**Toxicologically Synergistic** 

No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Spiro[isobenzofuran-1(3H),9-[9H]xanthen]-3-0		Not listed				
ne, 3,6-dihydroxy-2,4,5,7-t etraiodo-, sodium salt (1:2)						

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and No information available

delayed

ivo illicillation available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

**Persistence and Degradability** Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### **Erythrosin B**

## 14. Transport information

DOT

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Technical Name** Spiro[isobenzofuran-1(3H),9-[9H]xanthen]-3-one, 3,6-dihydroxy-2,4,5,7-tetraiodo-, sodium

salt (1:2

Hazard Class 9
Packing Group III

\_ TDG

**UN-No** UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

<u>IATA</u>

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

## 15. Regulatory information

#### International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Spiro[isobenzofuran-1(3H),9-[9H]x anthen]-3-one, 3,6-dihydroxy-2,4,5,7-tetraiodo-, sodium salt (1:2)	16423-68-0	Х	-	Х	ACTIVE	240-474-8	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Spiro[isobenzofuran-1(3H),9-[9H]x	16423-68-0	Х	KE-10872	X	Х	Х	Х	Х	Х
anthen]-3-one,									
3,6-dihydroxy-2,4,5,7-tetraiodo-,									
sodium salt (1:2)									ļ.

### Legend:

X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

### Other International Regulations

### Authorisation/Restrictions according to EU REACH

Component	. ,	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Spiro[isobenzofuran-1(3H),9-[9H] xanthen]-3-one, 3,6-dihydroxy-2,4,5,7-tetraiodo-, sodium salt (1:2)	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

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

Component	CAS-No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Spiro[isobenzofuran-1(3H),9-[ 9H]xanthen]-3-one, 3.6-dihydroxy-2,4,5,7-tetraiod		Not applicable	Not applicable	Not applicable	Not applicable
o-, sodium salt (1:2)					

Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Spiro[isobenzofuran-1(3H),9-[ 9H]xanthen]-3-one, 3,6-dihydroxy-2,4,5,7-tetraiod o-, sodium salt (1:2)		Not applicable	Not applicable	Not applicable	Not applicable

# 16. Other information

Prepared By Regulatory Affairs

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**Revision Summary**This document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Chemicals.

### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**