## Safety Data Sheet

according to Regulation (EU) 2015/830

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance

Substance name : PHLOXIN B FOR MICROSCOPY

Chemical name : 3,4,5,6-tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid

Synonyms : D and C Red No. 28 / C.I. 45410 / C.I. Acid Red 92 / Eosin Blue / Eosine Blue / Fluorescein,

2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-, disodium salt / Food Dye Red No. 104 / Food Red No. 104 / Phloxine B / Red 104 / Red No. 104 / 3,4,5,6-Tetrachloro-2-(1,4,5,8-tetrabromo-6-hydroxy-3-oxoxanthen-9-yl)benzoic acid / Spiro[isobenzofuran-1(3H),9'-(9H)xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, disodium salt / Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',4',5',7'-tetrabromo-4,5,6,7-tetrachloro-3',6'-dihydroxy-, sodium

salt (1:2) / ACID RED 92 / Acid Red 92 / C.I. 45410 sodium salt

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

### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only

Use of the substance/mixture : For microscopy Laboratory chemical

### 1.2.2. Uses advised against

No additional information available

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

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29

prodsafe@isolab.de

## 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319 Aquatic Chronic 1 H410

Full text of hazard classes and H-statements : see section 16

## Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07 GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling

P273 - Avoid release to the environment

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P280 - Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

P391 - Collect spillage

### 2.3. Other hazards

No additional information available

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Name	Product identifier	%
PHLOXIN B	(CAS-No.) 18472-87-2 (EC-No.) 242-355-6	100

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

## 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

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

Hazardous decomposition products in case of :

fire

: Toxic fumes may be released.

## 5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

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# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal Precautions for safe handling

protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

No additional information available

### 8.2. **Exposure controls**

### Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protective equipment:

Gloves. Safety glasses.

### Hand protection:

Protective gloves

### Eye protection:

Safety glasses

## Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment





## **Environmental exposure controls:**

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance : Powder. Molecular mass : 829.64 g/mol

Colour red. Odour : odourless.

Odour threshold : No data available рΗ : No data available Relative evaporation rate (butylacetate=1) No data available Melting point : No data available Freezing point : Not applicable : No data available

Flash point : Not applicable Auto-ignition temperature : Not applicable

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Boiling point

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Decomposition temperature : No data available
Flammability (solid, gas) : Non flammable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : Not applicable

Solubility : Partially soluble in water.

Log Pow : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

PHLOXIN B (18472-87-2)

LD50 oral rat

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

8400 mg/kg

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

		3 3
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	: 1	Causes serious eye irritation.
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	: 1	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

No additional information available

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### Mobility in soil 12.4.

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3077	3077	3077	3077	3077
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  Transport document descr	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III
14.3. Transport hazard				
9	9	9	9	9
14.4. Packing group	<u>,                                      </u>			
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

### 14.6. Special precautions for user

### - Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Mixed packing provisions (ADR) : MP10 Portable tank and bulk container instructions : T1, BK1, BK2 (ADR)

: TP33

Portable tank and bulk container special

provisions (ADR)

: SGAV, LGBV Tank code (ADR)

Vehicle for tank carriage : AT Transport category (ADR) : 3

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Special provisions for carriage - Packages : V13

Special provisions for carriage - Bulk (ADR) : VC1, VC2 Special provisions for carriage - Loading,

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

: CV13

90 3077

Tunnel restriction code (ADR) : E EAC code : 2Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg : E1 Excepted quantities (IMDG) : P002, LP02 Packing instructions (IMDG) : PP12 Special packing provisions (IMDG) IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F : A Stowage category (IMDG) Stowage and handling (IMDG) : SW23 MFAG-No : 171

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y956 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 956 PCA max net quantity (IATA) : 400kg CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

- Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 : T\* B\*\* Carriage permitted (ADN) Equipment required (ADN) : PP, A Number of blue cones/lights (ADN) : 0

- Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3 Mixed packing provisions (RID) : MP10



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Portable tank and bulk container instructions : T1, BK1, BK2

(RID)

Portable tank and bulk container special : TP33

provisions (RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3 Special provisions for carriage - Packages : W13

(RID)

: VC1, VC2

Special provisions for carriage – Bulk (RID) Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW31

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 90

### Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

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

### **EU-Regulations** 15.1.1.

No REACH Annex XVII restrictions

PHLOXIN B is not on the REACH Candidate List

PHLOXIN B is not on the REACH Annex XIV List

### 15.1.2. **National regulations**

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
vPvB	Very Persistent and Very Bioaccumulative	
SDS	Safety Data Sheet	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation
H410	Very toxic to aquatic life with long lasting effects

### SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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