

RHODAMINE B

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 01/06/2022

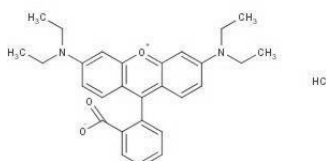
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Substance name	: RHODAMINE B AR FOR MICROSCOPY
EC-No.	: 201-383-9
CAS-No.	: 81-88-9
Type of product	: Pure substance
Formula	: C ₂₈ H ₃₁ ClN ₂ O ₃
Chemical structure	:



Synonyms

: (9-(o-carboxyphenyl)-6-(diethylamino)-3H-xanthgen-3-ylidene)diethylemmonium chloride / (9-(ortho-carboxyphenyl)-6-(diethylamino)-3H-xanthgen-3-ylidene)diethylemmonium chloride / 11411 RED / 3-ethochloride of 9-ortho-carboxyphenyl-6-diethylimino-3-isoxanthene / 9-(2-carboxyphenyl)-3,6-bis(diethylamino)xanthylium chloride / 9-o-carboxyphenyl-6-diethylamino-3-ethylimino-3-isoxanthene, 3-ethochloride / 9-ortho-carboxyphenyl-6-diethylamino-3-ethylimino-3-isoxanthene, 3-ethochloride / acid briljant pink B / ADC rhodamine B / aizen rhodamine BH / aizen rhodamine BHC / akiriku rhodamine B / ammonium, (9-(o-carboxyphenyl)-6-(diethylamino)-3H-xanthen-3-ylidene)diehtyl-, chloride / ammonium, (9-(ortho-carboxyphenyl)-6-(diethylamino)-3H-xanthen-3-ylidene)diehtyl-, chloride / basic violet 10 / basic violet 10 (C.I.) / Basic Violet 10 (C.I.) / brilliant pink B / C.I. 45170 / C.I. 749 / C.I. food red 15 / calcozine red BX / calcozine rhodamine BL / calcozine rhodamine BX / calcozine rhodamine BXP / cerise toner X1127 / certiqua rhodamine / CI 45170 / CI 749 / CI basic violet 10 / CI food red 15 / cogilor red 321.10 / cosmetic brilliant pink bluish D conc / D & C red no. 19 / D+C red no. 19 / diabasic rhodamine B / diethyl-m-amino-phenolphthalein hydrochloride / diethyl-meta-amino-phenolphthalein hydrochloride / edicol supra rose B / edicol supra rose BS / elcozine rhodamine B / eriosin rhodamine B / ethanaminium, N-(9-(2-carboxyphenyl)-6-(diethylamino)-3H-xanthen-3-ylidene)-N-ethyl, chloride / FD & C red no. 19 / FD and C red no. 19 / food red 15 / geranium lake N / hexacol rhodamine B extra / ikada rhodamine B / iragan red L-U / mitsui rhodamine B extra / N-[9-(2-carboxyphenyl)-6-(diethylamino)-3H-xanthen-3-ylidene]-N-ethylethanaminium chloride / red no. 213 / rheonine B / rhodamine B / rhodamine B 20-7470 / rhodamine B 500 / rhodamine B 500 hydrochloride / rhodamine B chloride / rhodamine B extra / rhodamine B extra M310 / rhodamine B extra S / rhodamine B500 / rhodamine BA / rhodamine BA export / rhodamine BF / rhodamine BL / rhodamine BN / rhodamine BS / rhodamine BX / rhodamine BXL / rhodamine BXP / rhodamine FB / rhodamine lake red B / rhodamine O / rhodamine S / rhodamine, blue shade / rhodamine, tetraethyl- / sicilian cerise tone A-7127 / symulex magenta F / symulex pink F / symulexx rhodamine B toner F / takaoka rhodamine B / tetraethyldiamino-o-carboxyphenyl xanthenyl chloride / tetraethyldiamino-ortho-carboxyphenyl xanthenyl chloride / tetraethylrhodamine / violet zasadita 10 / xanthylium, 9-(2-carboxyphenyl)-3,6-bis(diethylamino)-, chloride

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	: Dyestuff/pigment Photographic chemical 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

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1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), 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]

Acute Tox. 4 (Oral) H302

Eye Dam. 1 H318

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed
H318 - Causes serious eye damage

Precautionary statements (CLP) :

P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P264 - Wash thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product
P301+P312 - IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338 - IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 - Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
RHODAMINE B	(CAS-No.) 81-88-9 (EC-No.) 201-383-9	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 general :

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation :

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

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First-aid measures after skin contact	: Rinse with water. Do not apply (chemical) neutralizing agents. Remove clothing before washing. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation	: AFTER INHALATION OF DUST: Slight irritation. Dry/sore throat. Coughing.
Symptoms/effects after skin contact	: Slight irritation. May stain the skin.
Symptoms/effects after eye contact	: Corrosion of the eye tissue. Inflammation/damage of the eye tissue.
Symptoms/effects after ingestion	: Irritation of the gastric/intestinal mucosa.
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Photoallergy. Respiratory difficulties.

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Polyvalent foam. Alcohol-resistant foam. Polymer foam. ABC powder. Carbon dioxide.
Unsuitable extinguishing media	: No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: DIRECT FIRE HAZARD. No data available on direct fire hazard. INDIRECT FIRE HAZARD. No data available on indirect fire hazard.
Explosion hazard	: DIRECT EXPLOSION HAZARD. Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark.

5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing.
Emergency procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes.
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment	: Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Powdered form: no compressed air for pumping over spills.
Methods for cleaning up	: Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Powdered: do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Do not discharge the waste into the drain. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage temperature : 20 °C
Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Information on mixed storage : KEEP SUBSTANCE AWAY FROM: oxidizing agents. reducing agents.
Storage area : Store in a cool area. Store in a dry area. Store in a dark area. Keep container in a well-ventilated place. Store at room temperature. Keep out of direct sunlight. Meet the legal requirements.
Special rules on packaging : SPECIAL REQUIREMENTS: closing. opaque. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.
Packaging materials : SUITABLE MATERIAL: glass.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

RHODAMINE B (81-88-9)		
Belgium	Limit value (mg/m ³)	3 mg/m ³ (Particules non classifiées autrement (fraction alvéolaire); Belgium; Time-weighted average exposure limit 8 h; Particules non classifiées autrement (fraction inhalable); 10 mg/m ³ ; Belgium; Time-weighted average exposure limit 8 h)
France	VME (mg/m ³)	10 mg/m ³ (Poussières réputées sans effet spécifique; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante; Poussières réputées sans effet spécifique, fraction; 5 mg/m ³ ; France; Time-weighted average exposure limit 8 h; VRC: Valeur réglementaire contraignante)
United Kingdom	WEL TWA (mg/m ³)	4 mg/m ³ Inhalable dust; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005); Respirable dust; 10 mg/m ³ ; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)

8.2. Exposure controls

Personal protective equipment:

Gloves. Safety glasses.

Materials for protective clothing:

GIVE GOOD RESISTANCE: rubber. plastics

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P2

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Device	Filter type	Condition	Standard
Dust mask	Type P2	Dust protection	



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystalline solid. Crystalline powder.
Molecular mass	: 479.02 g/mol
Colour	: Dark green.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 210 - 211 °C
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 165 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.79
Density	: 790 kg/m ³
Solubility	: Moderately soluble in water. Substance floats in water. Soluble in ethanol. Soluble in ether. Soluble in xylene.
Log Pow	: 1.95 (Experimental value)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 0 %
Other properties	: Substance has acid reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (nitrous vapours, hydrogen chloride, carbon monoxide - carbon dioxide).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

RHODAMINE B (81-88-9)	
LD50 oral rat	500 mg/kg (Rat)
Skin corrosion/irritation	: Not classified pH: 2.0 - 3.0 (1.0 %)
Serious eye damage/irritation	: Causes serious eye damage. pH: 2.0 - 3.0 (1.0 %)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
IARC group	: 3

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). TA-Luft Klasse 5.2.1.

Ecology - water : Water pollutant (surface water). Slightly harmful to fishes (LC50(96h) 100-1000 mg/l). Harmful to invertebrates (Daphnia). Slightly harmful to algae. pH shift. Inhibition of activated sludge.

RHODAMINE B (81-88-9)	
LC50 fish 2	217 mg/l (LC50; 96 h)
EC50 Daphnia 2	22.9 mg/l (EC50; 48 h)

12.2. Persistence and degradability

RHODAMINE B (81-88-9)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

RHODAMINE B (81-88-9)	
BCF fish 1	< 1.7 (BCF)
Log Pow	1.95 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Dissolve or mix with a combustible solvent. Remove to an incinerator for chlorinated waste materials with energy recovery.

Additional information : LWCA (the Netherlands): KGA category 04. Hazardous waste according to Directive 2008/98/EC.

European List of Waste (LoW) code : 20 01 17* - photochemicals

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

RHODAMINE B is not on the REACH Candidate List

RHODAMINE B is not on the REACH Annex XIV List

VOC content : 0 %

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15.1.2. National regulations

Germany

- VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters
- WGK remark : Internal classification water polluting based on the R-phrases according to method VwVwS (Anhang 3)
- 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (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 giftige stoffen – Borstvoeding : The substance is not listed
- 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

Denmark

- Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

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
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:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed
H318	Causes serious eye damage

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