

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



94900 Rhodamine B

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Revised edition: 12.03.2019

Version: 4

Printed: 12.09.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Rhodamine B

Article No.: 94900

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Reagent for analysis

In vitro diagnostic

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Acute toxicity (oral), hazard category 4

Serious eye damage, hazard category 1

Hazardous to the aquatic environment, hazard category 2

H302 Harmful if swallowed.

Cat.: 4

H318 Causes serious eye damage.

Cat.: 1

H412 Harmful to aquatic life with long lasting effects.

Cat.: 3

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

*Classification according to Regulation
(EC) No. 1272/2008 (CLP/GHS)*

Hazard designation:

GHS05-2

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GHS07

Signal word:

Danger

Hazard designation:

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

Safety designation:

P273	Avoid release to the environment.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P310	Immediately call a poison center or physician.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

This product is a substance: see details under 3.2.

3.2. Mixture

Chemical Characterization: Brilliant pink B, Rosaceine B, Safraniline. C.I. 45170, Schulz No. 864

Information on Components / Hazardous Ingredients:

Rhodamine B (H302-318-412)	100 %	CAS-Nr: 81-88-9 EINECS-Nr: 201-383-9 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Supply fresh air.

After skin contact:

Remove contaminated clothing. Wash off immediately with plenty of water and soap.

After eye contact:

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*Rinse open eyes with plenty of water for at least 15 minutes.
Consult a physician immediately.*

After ingestion:

*Immediately give water to drink (at the most 2 glasses).
Consult a doctor.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

*Combustible.
Formation of hazardous combustion gases or vapors possible in the event of fire.*

5.3. Advice for Firefighters

Protective equipment:

*Wear self-contained respiratory protective device.
Wear suitable protective clothing.*

Further information:

*Suppress escaping gases/fumes/mist with a water spray jet.
Avoid contamination of sewage system, open water ways and ground water.*

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Ensure adequate ventilation.
Wear protective clothing.
Avoid contact with skin, eyes and clothing.
Do not inhale dust. Avoid formation of dust.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

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6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in suitable container for disposal. Rinse spill area. Avoid dust formation.

6.4. Reference to other Sections

For information for safe handling see Section 7.

Protective clothing, see Section 8.

See Section 13 for information on disposal.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Avoid contact with eyes, skin and clothing.

Avoid formation of dust.

Provide adequate ventilation.

Hygienic measures:

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a dry room.

Requirements for storage areas and containers:

Keep container tightly closed.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

6.1 C (TRGS 510), Combustible, acute toxic cat. 3 / toxic products (Containers with a capacity of up to 3 m³)

Further Information:

7.3. Specific End Use(s)

Further information:

Use as laboratory reagent.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

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8.2. Exposure Controls

Technical protective measures:

Technical protective measures have priority to personal protective measures.

Provide adequate ventilation in case of dust formation.

Personal Protection

General protective measures:

Remove contaminated clothing immediately.

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

In case of formation of dust.

Recommended: filter P2

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Nitrile rubber (> 480 min, 0.11 mm).

The glove material must be sufficiently impermeable and resistant against the product.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: solid

Color: green

Odor: odorless

Odor threshold: no information available

pH-Value: 3 - 4 (10 g/l H₂O; 20°C)

Melting temperature: 199°C

Boiling temperature: not available

Flash point: not available

Evaporation rate: No information available.

Flammability (solid, gas):

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not available

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

No information available.

Density:

1.31 g/cm³ (20°C)

Solubility in water:

15 g/l (20°C)

Coefficient of variation (n-Octanol/Water):

1.95 logPOW

Auto-ignition temperature:

No information available.

Decomposition temperature:

> 245°C

Viscosity, dynamic:

not applicable

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

not oxidizing

Bulk density:

250 kg/m³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Risk of dust explosion.

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10.4. Conditions to Avoid

Conditions to avoid:

Avoid formation of dust.

Thermal decomposition:

see section 9

10.5. Incompatible Materials

Strong oxidizing agents.

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

Acute Toxicity

LD50, oral: 887 mg/kg (rat)

LD50, dermal: not determined

LC50, inhalation: not determined

Primary effects

Irritant effect on skin: No information available

Irritant effect on eyes: Causes severe eye damage.

Inhalation: No information available.

Ingestion: No information available

Sensitization: No relevant data found.

Mutagenicity:

Reproductive toxicity: No information available.

Carcinogenicity: No relevant data found.

Teratogenicity: No information available.

Specific target organ toxicity (STOT): No relevant data found.

Aspiration hazard: No information available.

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11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

Fish toxicity:

LC50: 10 - 100 mg/l (96h, Gambusia affinis)

Daphnia toxicity:

No information available.

Bacteria toxicity:

EC10: 120 mg/l (0.5h, Pseudomonas putida)

Algae toxicity:

No information available.

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No bioaccumulation expected (log POW: 1-3).

BCF (Rhodamine B): < 0.02 (Cyprinus carpio; 24d)

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

No data available.

12.6. Endocrine Disrupting Properties

No data available.

12.7. Other Adverse Effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

Do not let product enter water systems.

European Waste Code (EWC):

Uncleaned packaging:

Contaminated packaging must be disposed like the substance.

Non-contaminated packaging may be recycled.

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Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

no

14.6. Special Precautions for User

not applicable

14.7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (according to the German Regulation

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AwSV)

Local regulations on chemical accidents:

Seveso III Directive: not applicable under Directive 2012/18/EC.

Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law (§ 22 JArbSchG) are to be observed.

The employment restrictions for expectant and nursing mothers are to be observed (§§11 and 12 MuSchRiV).

Restriction and prohibition of application:

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.