



# Safety Data Sheet



according to UK REACH Regulation

## Rhodamine 6 GO

Revision date: 29.08.2022

Product code: 1B-399-401

Page 1 of 9

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

#### 1.1. Product identifier

Rhodamine 6 GO

#### Further trade names

1B-399 Rhodamine 6 GO (Rhodamin 6 GO)

1B-401 Rosazeine 6 G (Rosazein 6 G)

CAS No: 989-38-8

EC No: 213-584-9

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

##### Use of the substance/mixture

Use as laboratory reagent

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

|                         |  |                               |
|-------------------------|--|-------------------------------|
| Company name:           | Waldeck GmbH & Co KG                                 |                               |
|                         | Division Chroma                                      |                               |
| Street:                 | Havixbecker Str. 62                                  |                               |
| Place:                  | D-48161 Münster                                      |                               |
| Post-office box:        | 410180   |                               |
|                         | D-48065 Münster                                      |                               |
| Telephone:              | +49(0)2534/9700                                      | Telefax: +49(0)2534/970258    |
| e-mail:                 | labor1@waldeck-ms.de                                 |                               |
| Contact person:         | Dr. Wolfgang Schröder                                | Telephone: +49(0)2534/970-212 |
| e-mail:                 | labor1@waldeck-ms.de                                 |                               |
| Responsible Department: | Labor  |                               |
|                         | Mo. – Do.: 08.00 – 17.00 Uhr, Fr.: 08.00 – 15.00 Uhr |                               |
|                         | labor1@waldeck-ms.de                                 |                               |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Acute Tox. 3; H301

Eye Dam. 1; H318

Skin Sens. 1; H317

Aquatic Acute 1; H400 (M-Factor (self-classification) = 1)

Aquatic Chronic 1; H410 (M-Factor = )

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

Signal word: Danger

Pictograms:



##### Hazard statements

|      |   |
|------|---|
| H301 | Toxic if swallowed.                                   |
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H410 | Very toxic to aquatic life with long lasting effects. |



# Safety Data Sheet



according to UK REACH Regulation

## Rhodamine 6 GO

Revision date: 29.08.2022

Product code: 1B-399-401

Page 2 of 9

### Precautionary statements

- P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P391 Collect spillage.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Hazardous components

| CAS No   | Chemical name  |          |          | Quantity |
|----------|--|----------|----------|----------|
|          | EC No  | Index No | REACH No |          |
|          | Classification (GB CLP Regulation)   |          |          |          |
| 989-38-8 | Rhodamine 6GO  |          |          | 100 %    |
|          | 213-584-9  |          |          |          |
|          | Acute Tox. 3, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H301 H318 H317 H400 H410 |          |          |          |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No                                     | Chemical name | Quantity |
|----------|---|---------------|----------|
|          | Specific Conc. Limits, M-factors and ATE  |               |          |
| 989-38-8 | 213-584-9                                 | Rhodamine 6GO | 100 %    |
|          | oral: LD50 = 250 mg/kg M acute; H400: M=1 |               |          |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Medical treatment necessary.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately.

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

No information available.

**Rhodamine 6 GO**

Revision date: 29.08.2022

Product code: 1B-399-401

Page 3 of 9

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable. In case of fire may be liberated: Hazardous combustion products

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid dust formation. Do not breathe dust.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide

**Rhodamine 6 GO**

Revision date: 29.08.2022

Product code: 1B-399-401

Page 4 of 9

adequate ventilation as well as local exhaust at critical locations. Keep container tightly closed in a cool, well-ventilated place.

**Hints on joint storage**

No special measures are necessary.

**7.3. Specific end use(s)**

Use as laboratory reagent

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Suitable eye protection: goggles.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Use of protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                 |           |
|-----------------|-----------|
| Physical state: | solid     |
| Colour:         | red brown |
| Odour:          | odourless |

**Changes in the physical state**

|   |                |
|---|----------------|
| Melting point/freezing point:                             | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Flash point:  | not applicable |

**Flammability**

|               |                |
|---------------|----------------|
| Solid/liquid: | not determined |
| Gas:          | not applicable |

**Explosive properties**

The product is not: Explosive.

|                         |                |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |



# Safety Data Sheet

according to UK REACH Regulation



## Rhodamine 6 GO

Revision date: 29.08.2022

Product code: 1B-399-401

Page 5 of 9

|   |                |
|---|----------------|
| Auto-ignition temperature:                            | not determined |
| Decomposition temperature:                            | not determined |
| pH-Value:   | not determined |
| Water solubility:<br>(at 20 °C)                       | 30 g/L         |
| <b>Solubility in other solvents</b><br>not determined |                |
| Partition coefficient n-octanol/water:                | not determined |
| Vapour pressure:                                      | not determined |
| Density:  | not determined |
| Relative vapour density:                              | not determined |

### 9.2. Other information

#### Information with regard to physical hazard classes

Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Solid content: not determined

Evaporation rate: not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Violent reaction with:

Oxidising agent, strong.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Toxic if swallowed.

| CAS No   | Chemical name  |               |         |        |        |
|----------|----------------|---------------|---------|--------|--------|
|          | Exposure route | Dose          | Species | Source | Method |
| 989-38-8 | Rhodamine 6GO  |               |         |        |        |
|          | oral           | LD50<br>mg/kg | 250     | Rat    |        |

**Safety Data Sheet**

according to UK REACH Regulation

**Rhodamine 6 GO**

Revision date: 29.08.2022

Product code: 1B-399-401

Page 6 of 9

**Irritation and corrosivity**

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Causes skin irritation. Irritating to eyes.

**Sensitising effects**

May cause an allergic skin reaction. (Rhodamine 6GO)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

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

Very toxic to aquatic life with long lasting effects.

| CAS No   | Chemical name            |              |           |                                     |           |          |
|----------|--------------------------|--------------|-----------|-------------------------------------|-----------|----------|
|          | Aquatic toxicity         | Dose         | [h]   [d] | Species                             | Source    | Method   |
| 989-38-8 | Rhodamine 6GO            |              |           |                                     |           |          |
|          | Acute crustacea toxicity | EC50<br>mg/l | 0,16      | 48 h Daphnia magna (Big water flea) | SDB Merck | OECD 202 |

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.



# Safety Data Sheet

according to UK REACH Regulation



## Rhodamine 6 GO

Revision date: 29.08.2022

Product code: 1B-399-401

Page 7 of 9

### SECTION 14: Transport information

#### Land transport (ADR/RID)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2811                                     |
| <b>14.2. UN proper shipping name:</b>    | TOXIC SOLID, ORGANIC, N.O.S. (Rhodamin 6GO) |
| <b>14.3. Transport hazard class(es):</b> | 6.1   |
| <b>14.4. Packing group:</b>              | III   |
| Hazard label:                            | 6.1   |
|  |   |
| Classification code:                     | T2  |
| Special Provisions:                      | 274 614                                     |
| Limited quantity:                        | 5 kg  |
| Excepted quantity:                       | E1  |
| Transport category:                      | 2   |
| Hazard No:                               | 60  |
| Tunnel restriction code:                 | E   |

#### Inland waterways transport (ADN)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2811                                     |
| <b>14.2. UN proper shipping name:</b>    | TOXIC SOLID, ORGANIC, N.O.S. (Rhodamin 6GO) |
| <b>14.3. Transport hazard class(es):</b> | 6.1   |
| <b>14.4. Packing group:</b>              | III   |
| Hazard label:                            | 6.1   |
|  |   |
| Classification code:                     | T2  |
| Special Provisions:                      | 274 614 802                                 |
| Limited quantity:                        | 5 kg  |
| Excepted quantity:                       | E1  |

#### Marine transport (IMDG)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2811                                     |
| <b>14.2. UN proper shipping name:</b>    | TOXIC SOLID, ORGANIC, N.O.S. (Rhodamin 6GO) |
| <b>14.3. Transport hazard class(es):</b> | 6.1   |
| <b>14.4. Packing group:</b>              | III   |
| Hazard label:                            | 6.1   |
|  |   |
| Special Provisions:                      | 223, 274                                    |
| Limited quantity:                        | 5 kg  |
| Excepted quantity:                       | E1  |
| EmS:                                     | F-A, S-A                                    |

#### Air transport (ICAO-TI/IATA-DGR)

|  |   |
|--|---|
| <b>14.1. UN number or ID number:</b>     | UN 2811                                     |
| <b>14.2. UN proper shipping name:</b>    | TOXIC SOLID, ORGANIC, N.O.S. (Rhodamin 6GO) |
| <b>14.3. Transport hazard class(es):</b> | 6.1   |
| <b>14.4. Packing group:</b>              | III   |
| Hazard label:                            | 6.1   |



# Safety Data Sheet



according to UK REACH Regulation

## Rhodamine 6 GO

Revision date: 29.08.2022

Product code: 1B-399-401

Page 8 of 9



|  |       |        |
|--|-------|--------|
| Special Provisions:                    | A3 A5 |        |
| Limited quantity Passenger:            | 10 kg |        |
| Passenger LQ:                          | Y645  |        |
| Excepted quantity:                     | E1    |        |
| IATA-packing instructions - Passenger: |       | 670    |
| IATA-max. quantity - Passenger:        |       | 100 kg |
| IATA-packing instructions - Cargo:     |       | 677    |
| IATA-max. quantity - Cargo:            |       | 200 kg |

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Warning: Acute Toxicity.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU (SEVESO III): H2 ACUTE TOXIC

Additional information: E1

#### Additional information

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 3 - highly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,11,12,13,14,15,16.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances



**Safety Data Sheet**

according to UK REACH Regulation

**Rhodamine 6 GO**

Revision date: 29.08.2022

Product code: 1B-399-401

Page 9 of 9

CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

**Relevant H and EUH statements (number and full text)**

|      |   |
|------|---|
| H301 | Toxic if swallowed.                                   |
| H317 | May cause an allergic skin reaction.                  |
| H318 | Causes serious eye damage.                            |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.