



according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 1 of 11

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

1.1. Product identifier

Street:

Place:

Auramine Rhodamine solution

UFI: RHF2-02TV-J002-YR73

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
Havixbecker Str. 62
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 Schräder 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; H331 Skin Corr. 1B; H314 Eye Dam. 1; H318 Muta. 2; H341 Carc. 1B; H350

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Phenol, liquid Auramine O

Signal word: Danger

Pictograms:







Hazard statements

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 2 of 11

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

Restricted to professional users.

2.3. Other hazards

P310

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
108-95-2	Phenol, liquid			5 - < 10 %	
	203-632-7				
	Muta. 2, Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, STOT RE 2; H341 H330 H311 H302 H314 H373				
2465-27-2	Auramine O				
	219-567-2				
	Carc. 1B, Muta. 2, Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 2; H350 H341 H302 H319 H411				
81-88-9	Rhodamine B			< 1 %	
	201-383-9				
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3; H302 H318 H412				

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		
108-95-2	203-632-7	Phenol, liquid	5 - < 10 %	
	I	E = 0,5 mg/l (vapours); inhalation: LC50 = 0,316 mg/l (dusts or mists); dermal: g/kg; oral: LD50 = 317 mg/kg		
2465-27-2	219-567-2	Auramine O	1 - < 5 %	
	oral: LD50 = 1000 mg/kg			
81-88-9	201-383-9	Rhodamine B	< 1 %	
	oral: LD50 = 8	887 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 3 of 11

if possible).

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. 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 of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No information available.

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. Do not breathe gas/fumes/vapour/spray. 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

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). 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





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 4 of 11

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. Do not breathe gas/fumes/vapour/spray.

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 adequate ventilation as well as local exhaustion at critical locations.

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
108-95-2	Phenol	2	7.8		TWA (8 h)	WEL
		4	16		STEL (15 min)	WEL

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 5 of 11

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: Liquid
Colour: red brown
Odour: characteristic

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability: not determined Lower explosion limits: not determined Upper explosion limits: not determined Flash point: not determined Auto-ignition temperature: 595 °C not determined Decomposition temperature: pH-Value (at 20 °C): Viscosity / kinematic: not determined Water solubility: easily soluble

Solubility in other solvents not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative vapour density:

Particle characteristics:

not determined

1,09 g/cm³

not determined

not determined

not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined Solid content: 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

No known hazardous reactions.

10.4. Conditions to avoid

none





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 6 of 11

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 inhaled.

ATEmix calculated

ATE (oral) 4034 mg/kg; ATE (dermal) 8920 mg/kg; ATE (inhalation vapour) 6,670 mg/l; ATE (inhalation dust/mist) 4,213 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
108-95-2	Phenol, liquid						
	oral	LD50 mg/kg	317	Rat			
	dermal	LD50 mg/kg	669	Rat			
	inhalation vapour	ATE	0,5 mg/l				
	inhalation (4 h) dust/mist	LC50 mg/l	0,316	Rat			
2465-27-2	Auramine O						
	oral	LD50 mg/kg	1000	Rat			
81-88-9	Rhodamine B						
	oral	LD50 mg/kg	887	Rat			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Phenol, liquid; Auramine O)

May cause cancer. (Auramine O)

Reproductive toxicity: 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.

11.2. Information on other hazards

Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 7 of 11

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

	Product is flot. Ecotoxic.						
CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
108-95-2	Phenol, liquid						
	Acute fish toxicity	LC50	5,0 mg/l		Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	229 mg/l	72 h		GESTIS	
	Fish toxicity	NOEC	4^ mg/l		Poecilia reticulata (Guppy)	OECD 204	
	Acute bacteria toxicity	(EC50 mg/l)	786				
81-88-9	Rhodamine B						
	Acute fish toxicity	LC50 mg/l	10-100		Gambusia affinis (Mosquito fish)		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2465-27-2	Auramine O	2,98
81-88-9	Rhodamine B	1,95

BCF

CAS No	Chemical name	BCF	Species	Source
81-88-9	Rhodamine B	,	Cyprinus carpio (Common Carp)	- 0,1 mg/l - 24 d

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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.





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 8 of 11

Contaminated packaging

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 2821

14.2. UN proper shipping name: PHENOL SOLUTION

14.3. Transport hazard class(es):6.114.4. Packing group:IIHazard label:6.1



Classification code: T1
Limited quantity: 100 mL
Excepted quantity: E4
Transport category: 2
Hazard No: 60
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2821

14.2. UN proper shipping name: PHENOL SOLUTION

 14.3. Transport hazard class(es):
 6.1

 14.4. Packing group:
 II

 Hazard label:
 6.1



Classification code: T1
Special Provisions: 802
Limited quantity: 100 mL
Excepted quantity: E4

Marine transport (IMDG)

14.1. UN number or ID number: UN 2821

14.2. UN proper shipping name: PHENOL SOLUTION

 14.3. Transport hazard class(es):
 6.1

 14.4. Packing group:
 II

 Hazard label:
 6.1



Special Provisions:

Limited quantity: 100 mL Excepted quantity: E4 EmS: F-A, S-A

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2821

14.2. UN proper shipping name: PHENOL SOLUTION

14.3. Transport hazard class(es): 6.1





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 9 of 11

14.4. Packing group: II
Hazard label: 6.1



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

1 L

Y641

Excepted quantity:

E4

IATA-packing instructions - Passenger: 654
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 662
IATA-max. quantity - Cargo: 60 L

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 3, Entry 75

Information according to 2012/18/EU

H2 ACUTE TOXIC

(SEVESO III):

Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/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

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,6,7,8,9,10,11,13,14,15,16.





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 10 of 11

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

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).

Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Muta: Germ cell mutagenicity
Carc: Carcinogenicity

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to GB CLP Regulation

The control of the co				
Classification	Classification procedure			
Acute Tox. 3; H331	Calculation method			
Skin Corr. 1B; H314	Calculation method			
Eye Dam. 1; H318	Calculation method			
Muta. 2; H341	Calculation method			
Carc. 1B; H350	Calculation method			





according to UK REACH Regulation

Auramine Rhodamine solution

Revision date: 01.02.2022 Product code: 2C-278 Page 11 of 11

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.					
H311	Toxic in contact with skin.					
H314	Causes severe skin burns and eye damage.					
H318	Causes serious eye damage.					
H319	Causes serious eye irritation.					
H330	Fatal if inhaled.					
H331	Toxic if inhaled.					
H341	Suspected of causing genetic defects.					
H350	May cause cancer.					
11070						

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful 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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)