

Page 1 / 10 Creation Date 25-Aug-2011 Revision Date 28-Mar-2023

Version 1

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Perihalan Produk: TB Auramine-Rhodamine T TB Auramine-Rhodamine T TB Auramine-Rhodamine T

Cat No. : R40090, R40190

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Thermo Scientific Microbiology Sdn Bhd

No.6, Jalan TTC 6, Taman Teknologi Cheng,

Cheng, 75250 Melaka, Malaysia

+606 334 0975 .

Supplier Oxoid Ltd.

Wade Road

Basingstoke, Hants, UK

RG24 8PW

Telephone: +44 (0) 1256 841144

E-mail address mbd-sds@thermofisher.com

Emergency Telephone Number

(603) 5122 8888

CHEMTREC Malaysia 1-800-815-308 (Malay)

CHEMTREC Malaysia (Kuala Lumpur) +(60)-327884561 (Malay)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flammable liquids	Category 3 (H226)
Skin Corrosion/Irritation	Category 1 B (H314)
Serious Eye Damage/Eye Irritation	Category 1 (H318)
Germ Cell Mutagenicity	Category 2 (H341)
Carcinogenicity	Category 2 (H351)

Label Elements



OXDR40090

TB Auramine-Rhodamine T

Signal Word Danger

Hazard Statements

H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

Precautionary Statements

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

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

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

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Other Hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Glycerin	56-81-5	55
Isopropyl alcohol	67-63-0	13
Phenol	108-95-2	7
C.I. Food red 15	81-88-9	<1
Auramine	2465-27-2	<1

SECTION 4: FIRST AID MEASURES

Das	crintion	of firet	hie	measures

General Advice

Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing and gloves, including the inside, before re-use. Call a physician

immediately.

Ingestion Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an

unconscious person. Call a physician immediately.

Inhalation If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory

medical device. Call a physician immediately.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

OXDR40090

Revision Date 28-Mar-2023

TB Auramine-Rhodamine T

Revision Date 28-Mar-2023

Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Product is a corrosive material. Use of gastric layage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam. Water mist may be used to cool closed containers.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon oxides.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

Environmental precautions

Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

TB Auramine-Rhodamine T Revision Date 28-Mar-2023

Precautions for Safe Handling

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame.

Specific End Uses

Use in laboratories.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Component	Malaysia	ACGIH TLV	OSHA PEL
Glycerin			(Vacated) TWA: 10 mg/m ³
			(Vacated) TWA: 5 mg/m ³
			TWA: 15 mg/m ³
			TWA: 5 mg/m ³
Isopropyl alcohol		TWA: 200 ppm	(Vacated) TWA: 400 ppm
		STEL: 400 ppm	(Vacated) TWA: 980 mg/m ³
			(Vacated) STEL: 500 ppm
			(Vacated) STEL: 1225 mg/m ³
			TWA: 400 ppm
			TWA: 980 mg/m ³
Phenol		TWA: 5 ppm	(Vacated) TWA: 5 ppm
		Skin	(Vacated) TWA: 19 mg/m ³
			Skin
			TWA: 5 ppm
			TWA: 19 mg/m ³

Component	European Union	The United Kingdom	Germany
Glycerin		TWA: 10 mg/m ³ 8 hr (mist only)	TWA: 200 mg/m³ (8 Stunden). AGW
			- exposure factor 2
			TWA: 200 mg/m³ (8 Stunden). MAK
			Höhepunkt: 400 mg/m ³
Isopropyl alcohol		STEL: 500 ppm 15 min	TWA: 200 ppm (8 Stunden). AGW -
		STEL: 1250 mg/m ³ 15 min	exposure factor 2
		TWA: 400 ppm 8 hr	TWA: 500 mg/m³ (8 Stunden). AGW
		TWA: 999 mg/m ³ 8 hr	- exposure factor 2
			TWA: 200 ppm (8 Stunden). MAK
			TWA: 500 mg/m³ (8 Stunden). MAK
			Höhepunkt: 400 ppm
			Höhepunkt: 1000 mg/m ³
Phenol	TWA: 2 ppm (8h)	STEL: 4 ppm 15 min	TWA: 2 ppm (8 Stunden). AGW -
	TWA: 8 mg/m ³ (8h)	STEL: 16 mg/m ³ 15 min	exposure factor 2
	STEL: 4 ppm (15min)	TWA: 2 ppm 8 hr	TWA: 8 mg/m³ (8 Stunden). AGW -
	STEL: 16 mg/m³ (15min)	TWA: 7.8 mg/m ³ 8 hr	exposure factor 2
	Skin	Skin	Haut
Auramine			Haut

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

TB Auramine-Rhodamine T Revision Date 28-Mar-2023

Personal protective equipment

Eye Protection Goggles

Hand Protection Protective gloves
Skin and body protection Long sleeved clothing

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

To protect the wearer, respiratory protective equipment must be the correct fit and be used

and maintained properly

When RPE is used a face piece Fit Test should be conducted

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Dark orange - Red

Physical State Liquid

Odor No information available
Odor Threshold No data available

pH 2.0 - 3.0

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeNot applicable

Flash Point > 47.78 °C / > 118 °F Method - No information available

Evaporation Rate

No data available

Flammability (solid,gas) Not applicable Liquid

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

No data available

Specific Gravity / Density

Bulk Density

No data available

Not applicable

Liquid

Water Solubility
Solubility in other solvents
No information available
No information available

Partition Coefficient (n-octanol/water)

Explosion Limits

Component log Pow

TB Auramine-Rhodamine T Revision Date 28-Mar-2023

Glycerin -1.75Isopropyl alcohol 0.05 Phenol 1.5 C.I. Food red 15 >=1.9 - <=2 Auramine 2.98

Autoignition Temperature Decomposition Temperature

Viscosity

Explosive Properties Oxidizing Properties

No data available No data available No data available

No information available

explosive air/vapour mixtures possible

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None known, based on information available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous Reactions

Hazardous polymerization does not occur.

None under normal processing.

Conditions to Avoid

Heat, flames and sparks. Exposure to moisture. Keep away from open flames, hot surfaces

and sources of ignition.

Incompatible Materials

Strong oxidizing agents. Isocyanates.

Hazardous Decomposition Products

Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerin	12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L/4h (Rat)(mist)

TB Auramine-Rhodamine T

Isopropyl alcohol	5045 mg/kg (Rat)	12800 mg/kg (Rat)	72.6 mg/L (Rat) 4 h
	3600 mg/kg (Mouse)		
Phenol	LD50 = 340 mg/kg (Rat)	LD50 = 630 mg/kg (Rabbit)	LC50 = 316 mg/m ³ (Rat) 4 h
C.I. Food red 15	887 mg/kg (Mouse)		
Auramine	LD50 = 1490 mg/kg (Rat)	LD50 = 300 mg/kg (Mouse)	

Chronic Toxicity

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen

Sensitization No information available

Mutagenic Effects Phenol is classified by the European Union as a mutagen of category 3 Possible risk of

irreversible effects

Reproductive Effects Developmental Effects Target Organs No information available No information available No information available.

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

The product contains following substances which are hazardous for the environment. However, at the concentration present, this preparation is not expected to present significant adverse environmental effects.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Glycerin	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss)			
Isopropyl alcohol	flow-through	13299 mg/L EC50 = 48 h 9714 mg/L EC50 = 24 h	(Desmodesmus	Photobacterium phosphoreum 5 min
Phenol	4-7 mg/L LC50 96 h 32 mg/L LC50 96 h	EC50: 10.2 - 15.5 mg/L, 48h (Daphnia magna) EC50: 4.24 - 10.7 mg/L, 48h Static (Daphnia magna)	EC50: 187 - 279 mg/L, 72h static (Desmodesmus subspicatus) EC50: 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: = 46.42 mg/L, 96h (Pseudokirchneriella	EC50 21 - 36 mg/L 30 min EC50 = 23.28 mg/L 5 min EC50 = 25.61 mg/L 15 min EC50 = 28.8 mg/L 5 min EC50 = 31.6 mg/L 15 min

OXDR40090

Revision Date 28-Mar-2023

TB Auramine-Rhodamine T

Revision Date 28-Mar-2023

		subcapitata)	
C.I. Food red 15	LC50= 83.9 mg/L/96h (Cyprinodon variegatus)		
Auramine	LC50: 3.2 mg/L/48h (Oryzias Latipes)		

Persistence and degradability No information available

Bioaccumulative potential No information available

Component	log Pow	Bioconcentration factor (BCF)
Glycerin	-1.75	No data available
Isopropyl alcohol	0.05	No data available
Phenol	1.5	17.5 dimensionless
		647 dimensionless
C.I. Food red 15	>=1.9 - <=2	No data available
Auramine	2.98	No data available

Mobility in soil No information available. .

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused

Products

Waste is classified as hazardous Dispose of in accordance with the European Directives on waste and hazardous waste Dispose of in accordance with local regulations

Contaminated Packaging Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous Keep product and

empty container away from heat and sources of ignition

Other Information Waste codes should be assigned by the user based on the application for which the product

was used Do not flush to sewer Can be landfilled or incinerated, when in compliance with local regulations Do not empty into drains Large amounts will affect pH and harm aquatic

organisms

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

UN-No UN1987
Hazard Class 3
Packing Group III

Proper Shipping Name ALCOHOLS, N.O.S.

Road and Rail Transport

UN-No UN1987 Hazard Class 3 Packing Group III

Proper Shipping Name ALCOHOLS, N.O.S.

IATA

UN-No UN1987 Hazard Class 3

OXDR40090

TB Auramine-Rhodamine T Revision Date 28-Mar-2023

Ш **Packing Group**

Proper Shipping Name ALCOHOLS, N.O.S.

Special Precautions for User No special precautions required

SECTION 15: REGULATORY INFORMATION

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

X = listedInternational Inventories

Component	EINECS	TSCA	DSL	PICCS	ENCS	ISHL	IECSC	AICS	KECL
Glycerin	-	X	Х	X	Х	X	Х	Х	KE-29297
Isopropyl alcohol	-	X	Х	Х	Х	Х	Х	Х	KE-29363
Phenol	203-632-7	X	Х	Х	Х	X	Х	Х	Х
C.I. Food red 15	-	X	Х	Х	Х	Х	Х	Х	KE-07007
Auramine	219-567-2	X	Х	X	Х	X	Х	Х	KE-04744

Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Isopropyl alcohol				Annex I - Y42
Phenol				Annex I - Y39

National Regulations

Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 16: OTHER INFORMATION

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

WEL - Workplace Exposure Limit **ACGIH** - American Conference of Governmental Industrial Hygienists

RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% POW - Partition coefficient Octanol:Water

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime **Dangerous Goods Code**

OECD - Organisation for Economic Co-operation and Development **BCF** - Bioconcentration factor

Substances List

ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances NZIoC - New Zealand Inventory of Chemicals

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate VOC - (Volatile Organic Compound)

TB Auramine-Rhodamine T Revision Date 28-Mar-2023

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Revision Date 28-Mar-2023

Revision Summary Update to CLP Format.

In accordance with local and national regulations: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

OXDR40090