

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: UK REACH Regulations (SI 2019/758 as amended)

Revision date 02-Jan-2025

#### **Revision Number** 1

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

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Product Name	Reagent A
Catalogue Number(s)	12020028
EC No (EU Index No)	480-200-6
CAS No.	4781-83-3
Pure substance/mixture	Substance

Contains 2(3H)-Thiophenimine, dihydro-, hydrochloride

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

- Recommended use Laboratory chemicals
- Uses advised against No information available

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

Corporate Headquarters	Manufacturer	Supplier
Bio-Rad Laboratories Inc.	Bio-Rad Laboratories, Life Science Group	Bio-Rad Laboratories Ltd
1000 Alfred Nobel Drive	2000 Alfred Nobel Drive	The Junction
Hercules, CA 94547	Hercules, California 94547	Station Road
USA	USA	Watford, WD17 1ET UK

For further information, please contact

00800 00246 723
Ireland: Techsupport.UK@bio-rad.com
India: support.india@bio-rad.com
South Africa: lsg_techsupport_eemea@bio-rad.com

#### 1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC UK: 44-870-8200418

# **SECTION 2: Hazards identification**

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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	

#### 2.2. Label elements

Contains 2(3H)-Thiophenimine, dihydro-, hydrochloride



Signal word Warning

#### Hazard statements

H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation

#### Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
P312 - Call a POISON CENTER or doctor if you feel unwell
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### 2.3. Other hazards

No information available.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Trade secret	50 - 100	Listed	-	-	-	-	-

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

General adviceShow this safety data sheet to the doctor in attendance.InhalationRemove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

	attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms	May cause redness and tearing of the eyes. Burning sensation.
4.3. Indication of any immediate me	dical attention and special treatment needed
Note to doctors	Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
5.2. Special hazards arising from the substance or mixture			
Specific hazards arising from the chemical	No information available.		
5.3. Advice for firefighters			
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		

### **SECTION 6:** Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
For emergency responders	Use personal protection recommended in Section 8.	
6.2. Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so.	

6.3. Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
6.4. Reference to other sections		
Reference to other sections	See section 8 for more information. See section 13 for more information.	

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.		
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store according to product and label instructions.		
7.3. Specific end use(s)			
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.		

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.
8.2. Exposure controls	
Engineering controls	No information available.
Personal protective equipment	

Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this
	product. Avoid contact with skin, eyes or clothing.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties					
Physical state	Solid				
Colour	No information available				
Odour	No information available.				
Odour threshold	No information available				
Property	Values	Remarks • Method			
Melting point / freezing point	No data available	None known			
Initial boiling point and boiling rang	eNo data available	None known			
Flammability	No data available	None known			
Flammability Limit in Air		None known			
Upper flammability or explosive	No data available				
limits					
Lower flammability or explosive	No data available				
limits					
Flash point	No data available	None known			
Autoignition temperature	No data available	None known			
Decomposition temperature		None known			
pH .		None known			
pH (as aqueous solution)	No data available	None known			
Kinematic viscosity	No data available	None known			
Dynamic viscosity	No data available	None known			
Water solubility	Miscible in water	None known			
Solubility(ies)	No data available	None known			
Partition coefficient	No data available	None known			
Vapour pressure	No data available	None known			
Relative density	No data available	None known			
Bulk density	No data available				
Liquid Density	No data available				
Relative vapour density	No data available	None known			
Particle characteristics					
Particle Size	No information available				
Particle Size Distribution	No information available				

#### 9.2. Other information

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

#### Reactivity

No information available.

#### 10.2. Chemical stability

Stability

Stable under normal conditions.

**Explosion data** Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidising agents. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation (based on components). May cause redness, itching, and pain.	
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation (based on components).	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Redness. May cause redness and tearing of the eyes.	
Acute toxicity		
Numerical measures of toxicity No information available		
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Skin corrosion/irritation	Classification based on data available for ingredients. Causes skin irritation.	
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.	

Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
Other adverse effects	No information available.
	SECTION 12: Ecological information
<u>12.1. Toxicity</u>	SECTION 12: Ecological information
<u>12.1. Toxicity</u> Ecotoxicity	SECTION 12: Ecological information         The environmental impact of this product has not been fully investigated.
	The environmental impact of this product has not been fully investigated.
Ecotoxicity	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u>	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u> Persistence and degradability	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulation	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulation <u>12.4. Mobility in soil</u>	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulation <u>12.4. Mobility in soil</u> Mobility in soil	The environmental impact of this product has not been fully investigated.
Ecotoxicity <u>12.2. Persistence and degradability</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulation <u>12.4. Mobility in soil</u> Mobility in soil <u>12.5. Results of PBT and vPvB ass</u>	The environmental impact of this product has not been fully investigated.

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	
	SECTION 14: Transport information	
IATA 14.1 UN number or ID number 14.2 UN proper shipping name	Not regulated Not regulated	
<ul><li>14.3 Transport hazard class(es)</li><li>14.4 Packing group</li><li>14.5 Environmental hazards</li></ul>	Not regulated Not regulated Not applicable	
14.6 Special precautions for user Special Provisions	None	
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user Special Provisions14.7Maritime transport in bulk according to IMO instruments	Not regulated Not regulated Not regulated Not regulated Not applicable None No information available	
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group	Not regulated Not regulated Not regulated Not regulated	

### **SECTION 15: Regulatory information**

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

Not applicable

Not regulated Not regulated

Not regulated

Not regulated

Not applicable

None

None

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

#### **Persistent Organic Pollutants**

14.5 Environmental hazards

14.6 Special precautions for user Special Provisions

14.1 UN number or ID number

14.2 UN proper shipping name14.3 Transport hazard class(es)

14.5 Environmental hazards

14.6 Special precautions for user Special Provisions

14.4 Packing group

Not applicable

ADR

#### **Export Notification requirements**

#### Not applicable

#### Named dangerous substances per COMAH (SI 2015/483 as amended) Not applicable

The Ozone-Depleting Substances Regulations 2015 Not applicable

The Biocidal Products Regulations 2001 (as amended) Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended) Not applicable

## Poisons and Explosive Precursors

Not applicable

International Inventories Contact supplier for inventory compliance status

#### 15.2. Chemical safety assessment

**Chemical Safety Report** 

No information available

### **SECTION 16: Other information**

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitisers		

Method Used
Calculation method

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC) European Chemicals Agency (ECHA) (ECHA API) Environmental Protection Agency Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization 02-Jan-2025 **Revision date** 

Revision NoteSignificant changes throughout SDS. Review all sectionsThis SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemicalagents at work

#### 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