

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

1.1 Product identifier

| | |
|--------------|------------------------------|
| Product name | ERIOCHROME BLACK T INDICATOR |
| CAS-No. | 1787-61-7 |
| Product code | AR1252 |

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

| | |
|-----------------|---------------------------------------|
| Identified uses | Chemical for analysis and production. |
|-----------------|---------------------------------------|

1.3 Details of the manufacturer of the safety data sheet

| | |
|------------------|---|
| Manufacturer | RCI LABSCAN LIMITED. 24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand |
| Telephone number | (662) 613-7911-4 |
| Fax number | (662) 613-7915 |

1.4 Emergency Telephone Number

| | |
|-----------------|------------------|
| Emergency phone | (662) 613-7911-4 |
|-----------------|------------------|

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye irritation (Category 2), H319

Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H319

Causes serious eye irritation.

H411

Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P264

Wash hand thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear eye protection/face protection.

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 + P317

If eye irritation persists: Get medical help.

P391

Collect spillage.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients**3.1 Substances**

Synonyms Chrome black T, 2-Hydroxy-1-(1-hydroxy-2-naphthylazo)-6-nitronaphthalene-4-sulfonic acid sodium salt, EBT.

| | | | | | |
|-----------|-----------|-------------|---|------------------|----------|
| CAS-No | EC-No | EC-Index-No | Formula | Molecular Weight | Weight % |
| 1787-61-7 | 217-250-3 | - | C ₂₀ H ₁₂ N ₃ NaO ₇ S | 461.38 g/mol | <=100 |

Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component | Concentration | Classification |
|---|---------------|--|
| Eriochrome black T | | |
| CAS-No 1787-61-7 EC-No 217-250-3 EC-Index-No - | <=100% | Eye irritation (Category 2), H319 Chronic aquatic toxicity (Category 2), H411 |

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: First aid measures**4.1 Description of first aid measures**

| | |
|----------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Move to fresh air in case of accidental inhalation of dust. |
| Skin contact | Remove contaminated clothing and wash affected skin with soap and water. |
| Eye contact | If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention. |
| Ingestion | Rinse mouth. After swallowing make victim drink water (two glasses at the most), call in physician. |

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

Not Available

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

Extinguishing with carbon dioxide, dry chemical, foam or water spray.

5.2 Special hazards arising from the substance or mixture

Combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire: carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides.

5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Avoid contact with skin and wear suitable protective clothing.

5.4 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dusts; do not inhale dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protective equipment see **Section 8**.

6.2 Environmental precautions

Do not allow to enter drinking water and sewerage system.

6.3 Methods and materials for containment and cleaning up

Carefully sweep up, gather and remove. Avoid generation of dusts. Keep in suitable, closed containers for disposal. Clean up affected area.

6.4 Reference to other sections

For disposal see **Section 13**.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of good ventilation in the working area. Do not leave container open. Avoid spillage. Avoid rising dust.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water, moisture and incompatible materials.

Storage class 11 (TRGS 510); Combustible Solids.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

Individual protection measures (Personal protective equipment, PPE)

Eye/face protection

Goggles giving complete protection to eyes.

Skin protection

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when dusts are generated filter P1 (EN 143) or use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

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

| | |
|---|--|
| Physical State | Solid |
| Color | Black |
| Odour | Odorless |
| Odour Threshold | Not Available |
| pH | ~3.7 at 10 g/l H ₂ O at 20°C |
| Melting point/range | 252 °C |
| Boiling point/range | Not Available |
| Flash point | Not Available |
| Evaporation rate | Not Available |
| Flammability (solid, gas) | Not Available |
| Explosion limits: lower | Not Available |
| upper | Not Available |
| Vapor Pressure | Not Available |
| Relative Vapor Density | Not Available |
| Density | Not Available |
| Bulk density: | ~400-600 kg/m ³ |
| Water solubility | 50 g/l at 20°C |
| Partition coefficient (n-octanol/water) | log Pow: 1.78 |
| Auto-Ignition temperature | Not Available |
| Decomposition Temperature | Not Available |
| Viscosity | Not Available |
| Explosive properties | Not Explosive |
| Oxidizing properties | The substance or mixture is not classified as oxidizing. |

SECTION 10: Stability and reactivity**10.1 Reactivity**

Not Available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

The substance can react dangerously with strong oxidizing agent.

10.4 Conditions to avoid

Not Available

10.5 Incompatible materials

Strong oxidizing agent

10.6 Hazardous decomposition products

Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides (Hazardous decomposition products from under fire condition).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD₅₀ (rat, oral): 17590 mg/kg

Skin corrosion/irritation

No Irritation

Serious eye damage/eye irritation

Irritation

Respiratory or skin sensitization

Not Available

Germ cell mutagenicity

Ames test with Salmonella typhimurium is positive.

Carcinogenicity

Not Available

Reproductive toxicity

Not Available

Specific target organ toxicity (STOT) - single exposure

Not Available

Specific target organ toxicity (STOT) - repeated exposure

Not Available

Aspiration hazard

Not Available

Further information

The following applies to aromatic nitro compound in general: Systemic effect: Methaemoglobinaemia with headache, cardiac dysthymias, drop in blood pressure, dyspnoea, and spasms: Principal sign: Cyanosis (blue discoloration of the blood).

The following applies to azo dyes in general: Azo dyes containing a carcinogenic aryl amine component are suspected of possessing a carcinogenic potential.

The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC₅₀ Pimephales promelas (fathead minnow): 6 mg/l/96h.

Toxicity to bacteria

EC₅₀ Bacteria: 10-100 mg/l.

12.2 Persistence and degradability

Biodegradability

Method for the determination of biodegradability is not applicable to inorganic substance.

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)

log Pow: 1.78

No appreciable bioaccumulation potential is to be expected (log Po/w 1-3)

12.4 Mobility in soil

Not Available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

SECTION 14: Transport information**Land Transport (ADR/RID)**

| | |
|------------------------------|---|
| UN Number | 3077 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-HYDOXY-1-(1-HYDROXY-2-NAPHTHYLAZO)-6-NITRONAPHTHALENE-4-SULFONIC ACID SODIUM SALT) |
| Transport hazard class(es) | 9 |
| Packing group | III |
| Environmental hazards | Yes |
| Special precautions for user | Yes |

Sea transport (IMDG)

| | |
|------------------------------|---|
| UN Number | 3077 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-HYDOXY-1-(1-HYDROXY-2-NAPHTHYLAZO)-6-NITRONAPHTHALENE-4-SULFONIC ACID SODIUM SALT) |
| Transport hazard class(es) | 9 |
| Packing group | III |
| Marine pollutant | Yes |
| Special precautions for user | Yes |
| EmS | F-A S-F |

Air transport (IATA)

| | |
|----------------------------|---|
| UN Number | 3077 |
| UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-HYDOXY-1-(1-HYDROXY-2-NAPHTHYLAZO)-6-NITRONAPHTHALENE-4-SULFONIC ACID SODIUM SALT) |
| Transport hazard class(es) | 9 |
| Packing group | III |

| | |
|------------------------------|-----|
| Environmental hazards | Yes |
| Special precautions for user | No |

River transport (AND/ADNR)
(Not examined)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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

Not Available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Recommended restrictions

Take notice of labels and safety data sheets for the working.

Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany,

Source: IFA for Databases on hazardous substances (GESTIS).

Further information

Contact to RCI Labscan Limited.

Revision Date

30/06/2025

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 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.