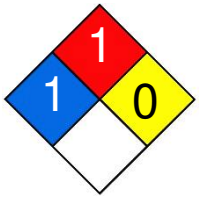
Material Safety Data Sheets



Revision 3

1. IDENTIFICATION

Product Name	**Eriochrome black T**
Other Names	Chrome black T, 2-Hydroxy-1-(1-hydroxy-2-naphthylazo)-6-nitronaphthalene-4-sulfonic acid sodium salt
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	$C_{20}H_{12}N_3NaO_7S$
Chemical Name	No Data Available
Product Description	No Data Available
Company	**Arman sina.co**
Contact Information	info@armansina.com **www.armansina.com**

2. HAZARD IDENTIFICATION

Hazard Categories

Eye irritation, (Category 2)	H319: Causes serious eye irritation.
Long-term (chronic) aquatic hazard, (Category 2)	H411: Toxic to aquatic life with long lasting effects.

Signal Word

Warning

Hazard Statements

H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.

Response

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.
P391	Collect spillage.

Symbol

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Eriochrome black T	$C_{20}H_{12}N_3NaO_7S$	1787-61-7	>= 100

4. FIRST AID MEASURES

Swallowed Rinse mouth thoroughly with water. Call a doctor if you feel unwell.

Eye Rinse immediately carefully and thoroughly with eye-bath or water. Obtain medical attention if symptoms appear.

Skin Gently wash with plenty of soap and water. In case of skin reactions, consult a physician.

Inhaled Remove casualty to fresh air and keep warm and at rest. Obtain medical attention if symptoms appear.

Advice to Doctor Consult a doctor in case of discomfort showing the SDS for the product.

5. FIRE FIGHTING MEASURES

General Measures Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire. extinguishing water from contaminating surface water or the ground water system.

Flammability Conditions No Data Available

Extinguishing Media Suitable extinguishing media :ABC-powder ;Carbon dioxide (CO2). Dry sand Nitrogen

Fire and Explosion Hazard Fire may cause evolution of: Sulfur oxides, nitrogen oxides
Development of hazardous combustion gases or vapours possible in the event of fire.

Hazardous Products of Combustion Carbon oxides; Nitrogen oxides (NOx); Sulfur oxides; Sodium oxides Combustible.

Special Fire Fighting Instructions In the event of fire, wear self-contained breathing apparatus.

Personal Protective Equipment No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	No Data Available
Clean Up Procedures	Take up mechanically, placing in appropriate containers for disposal. Dispose according to local legislation.
Containment	No Data Available
Decontamination	No Data Available
Environmental Precautionary Measures	Do not let product enter drains.
Evacuation Criteria	No Data Available
Personal Precautionary Measures.	For non-emergency personnel: Remove victim out of the danger area. First Aid, decontamination, treatment of symptoms.

7. HANDLING AND STORAGE

Handling	Advices on safe handling: No special measures are necessary. Measures to prevent fire, aerosol and dust generation .No special measures are necessary. Measures required to protect the environment No special measures are necessary. Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.
Storage	Store in a well-ventilated place. Keep container tightly closed. Packaging materials: High density polyethylene (HDPE) Glass Unsuitable container/equipment material: Metal container
Container	Keep containers tightly closed

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Wash hands before breaks and after work. Avoid contact with eyes and skin. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.
Exposure Limits	No Data Available
Biological Limits	No Data Available
Engineering Measures	Change contaminated clothing. Wash hands after working with substance.
Personal Protection Equipment	Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Eye/face protection Eye glasses with side protection DIN-/EN-Norms EN 166 Recommendation: VWR 111-0432 Skin protection When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well. Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Respiratory protection Respiratory protection necessary at: aerosol or mist formation Suitable respiratory protection apparatus: Full-/half-/quarter-face masks (EN 136/140) Recommendation: Suitable material: ABEK2P3
Special Hazards Precaustions	No Data Available
Work Hygienic Practices	No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	solid
Appearance	solid
Odour	No Data Available
Colour	grey
pH	3.7 (10 g/l, H_2O, 20 ° C)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	No Data Available
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No information available.
Evaporation Rate	No Data Available
Bulk Density	400-600 kg/m3
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	1,00 g/cm3
Specific Heat	No Data Available
Molecular Weight	461.38 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	No Data Available
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	No information available.
Reactions That Release Gases or Vapours	No information available.
Release of Invisible Flammable Vapours and Gases	No information available. No information available.

10. STABILITY AND REACTIVITY

General Information The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. Violent reactions possible with:
Strong oxidizing agents

Chemical Stability The product is chemically stable under standard ambient conditions (room temperature).

Conditions to Avoid No Data Available

Materials to Avoid No Data Available

Hazardous Decomposition Products No Data Available

Hazardous Polymerisation No Data Available

11. TOXICOLOGICAL INFORMATION

General Information No Data Available

Acute

Acute oral toxicity:
Eriochrome Black T - LD50: > 17590 mg/kg - Rat - (Merck KGaA)
Acute dermal toxicity:
Eriochrome Black T - LD50: > 3000 mg/kg - Rabbit - (IUCLID)
Acute inhalation toxicity:
Eriochrome Black T - LC50: > 2 mg/l - Rat - (National Library of Medicine ChemID Plus (NLM CIP))
Irritant and corrosive effects: Primary irritation to the skin: not applicable
Irritation to eyes: not applicable
Irritation to respiratory tract: not applicable
Respiratory or skin sensitisation In case of skin contact: not sensitising After inhalation: not sensitising

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity
Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 6 mg/l - 96 h
Remarks: (Lit.)
Toxicity to bacteria

Persistence/Degradability No Data Available

Mobility No Data Available

Environmental Fate No Data Available

Bioaccumulation Potential No Data Available

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Sewage disposal-relevant information Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets. Waste treatment of containers/packagings Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.
Special Precautions for Land Fill	No Data Available

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name	**Eriochrome black T**
Class	No Data Available
Subsidiary Risk(s)	No Data Available
EPG	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Sea Transport

Proper Shipping Name	**Eriochrome black T**
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No Data Available

Air Transport

Proper Shipping Name	**Eriochrome black T**
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

15. OTHER INFORMATION

Revision 3

Key/Legend

< Less Than
> Greater Than
atm Atmosphere
CAS Chemical Abstracts Service (Registry Number)
cm² Square Centimetres
CO2 Carbon Dioxide
COD Chemical Oxygen Demand
deg C (° C) Degrees Celcius
deg F (° F) Degrees Farenheit
g Grams
g/cm³ Grams per Cubic Centimetre
g/l Grams per Litre
HSNO Hazardous Substance and New Organism
IDLH Immediately Dangerous to Life and Health
immiscible Liquids are insoluable in each other.
inHg Inch of Mercury
inH2O Inch of Water
K Kelvin
kg Kilogram
kg/m³ Kilograms per Cubic Metre
lb Pound
LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or L Litre
m³ Cubic Metre
mbar Millibar
mg Milligram
mg/24H Milligrams per 24 Hours
mg/kg Milligrams per Kilogram
mg/m³ Milligrams per Cubic Metre
Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm Millimetre
mmH2O Millimetres of Water
mPa.s Millipascals per Second
N/A Not Applicable
NIOSH National Institute for Occupational Safety and Health
NOHSC National Occupational Heath and Safety Commission
OECD Organisation for Economic Co-operation and Development
Oz Ounce
PEL Permissible Exposure Limit
Pa Pascal
ppb Parts per Billion
ppm Parts per Million
ppm/2h Parts per Million per 2 Hours
ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight