DATE: 08/12/03 D32234422 CAT N T: 463282001 NO: AC228361000 PO NBR: P0095792 PAGE: 1

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

Eriochrome Black T, 250 Indicator Grade

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

UDS Name: Eriochrome Black T, Indicator Grade
-telog-Numbers: AC228360010, AC2283600250, AC228361000, AC228365000, S80002, E512-25,

871643

nonyms:

3 - Hydroxy-4-(1-hydroxy-2-naphthlyazo)-7-nitro-1-naphthalene sulfonic acid, sodium salt; C.I. Mordant Black 11, monosodium salt; Acid chrome Black T; Eriochrome Black T; Chrome Black T; Solochrome Black T; Solochrome Black T; Solochrome mpany Identification: Fisher Scientific Falxlawn, NJ 07410

r information, call: 201-796-7100

r CHEMTREC assistance, call: 800-424-9300

r International CHEMTREC absistance, call: 703-527-3887

\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1787-61-7 CAS# Eriochrome Black T Chemical Name 100 217-250-EINECS#

Hazard Symbols: Risk Phrases: 36 XI

\*\*\* SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

pearance: black powder.
rning: May cause respiratory tract irritation. May
ritation. Causes eye irritation.
rget Organs: Eyes. cause

tential Health Effects

Causes eye irritation.

May cause skin irritation Ingestion:

cause irritation of the digestive tract

Inhalation cause respiratory tract irritation.

Prolonged or repeated skin contact may cause dermatitis

SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes: Immediately flush eyes with plenty of water for at occasionally lifting the upper and lower eyelids. Get medical aid.

Skin

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give ox Get medical aid.

s to Physician:

symptomatically and

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use agent most appropriate to extinguish fire, and the second of the s General Information: As in any fire,

3,158

DATE: 08/12/03 D32234422 CAT N T: 463282001 NO: AC228361000

PO NBR: P0095792 PAGE: 2

SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper in Section personal protective equipment as 8. indicated

Spills/Leaks: Vacuum o Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in Protective Equipment section. Avoid generating dusty conditions provide ventilation. TIT CHE

\*\*\*\* SECTION 7 - HANDLING and STORAGE \*\*\*\*

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, ( well-ventilated area away from incompatible substances dry

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Exposure Limits

Eriochrome Black T none listed Chemical Name ACGIH none listed NIOSH none listed OSHA - Final PELS

Personal Protective Equipment Vacated PELs: Eriochrome Black T: NO OSHA Vacated PELs are listed for this chemical.

Wear appropriate protective eyeglasses or safety goggles as described by OSHA's eye protection regulations in 29 CFR 1910.133 Standard EN166. or European

Skin:

Wear appropriate protective gloves to exposure prevent skin

Respirators: Wear appropriate exposure. protective clothing to prevent skin

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI 288.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Color: Powder

Vapor Pressure:
Vapor Density:
Evaporation Rate:
Discosity:
Fresting/Melting Point:
Decomposition Temperature:
Solublity in water:
Specific Gravity/Density:
Molecular Formula:
Molecular Weight: reported

t available.
t available.
t available.
t applicable.
t applicable.
t available.
t available.

C20H12N3O7SNa 461.38 Soluble in hot water

\*\*\*\* SECTION 10 -STABILITY AND REACTIVITY \* \* \* \* \*

Chemical Stability:
Conditions to Avoid:
Conditions to Avoid:
Incompatible materials, dust generation, excess heat.
Incompatible materials, dust generation, excess heat.
Incompatibilities with Other Materials:
Strong oxidizing agents.
Hazardous Decomposition Products:
Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, irritating and toxic gases, carbon dioxide, sulfur oxides (SOX), including s and sulfur dioxide. c fumes and

3,159

```
STATE
Eriochrome Black T is not present on state lists from FL, or NJ.
California No Significant Risk Level:
None of the chemicals in this product are listed.
Suropean/International Regulations
European Labeling in Accordance with EC Directives
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nemical waste generators must determine whether a discarded chemical s classified as a hazardous waste, seem of the classification determination are listed in CFR Parts 261.3. Additionally, waste generators must consult state in docal hazardous waste regulations to ensure complete and accurate lassification.

PAR P-Series: None listed.

PRA U-Series: None listed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TSCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SARA CERCIA Hazardous Substances and corresponding RQs None of the chemicals in this material have an RQ. SARA Section 302 Extremely Hazardous Substances None of the chemicals in this product have a TPQ. Section 313.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US DOT

No information available
Canadian TDG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Canadian TDG
No information available.
                                                                                                                                                                                                                                                                         OSHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Clean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mutagenicity:
No information available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     No information available. Neurotoxicity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Carcinogenicity:
Eriochrome Black T -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INDEX: 032234422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ecotoxicity:
Goldfish (fresh water) 250 ppm/11H, death. Aquatic toxicity rating:
TLm 96 >1000 ppm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Teratogenicity:
No information available.
Reproductive Effects:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Epidemiology:
No information available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LD50/LC50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hazardous Polymerization: Has not been reported.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAS# 1787-61-7 is listed on the TSCA inventory.

Health & Safety Reporting List
None of the Chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule Rule None of the Chemicals in this material have a SNUR under TSCA
                                                                                                                                                                                                                                                                                       No chemicals are reportable under Section 313.

Nair Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

None of the chemicals in this product are listed as Hazardous
Substances under the CWA.

None of the chemicals in this product are listed as Priority
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
                                                                                                                                                                                                                   None of the chemicals in this product are considered highly hazardous by OSHA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Studies:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAS# 1787-61-7: QK2197000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                information available.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1787-61-7: Oral, rat: LD50 = 17590 mg/kg.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     **** SECTION 11 - TOXICOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    **** SECTION 13 - DISPOSAL CONSIDERATIONS ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                **** SECTION 14 - TRANSPORT INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              **** SECTION 12 - ECOLOGICAL INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          **** SECTION 15 - REGULATORY INFORMATION ****
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCT: 463282001
CAT NO: AC228361000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PO NBR: P0095792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PAGE: 3
```

CA,

PA, MN. MA

3,160

DATE: Risk Phrases: 08/12/03 D32234422 ACCT: 463282001 CAT NO: AC228361000 PO NBR: P0095792 PAGE: 4

Safety Phrases:

S 26 In case of contact with e with plenty of water and seek n S 39 Wear eye/face protection. medical advice.

WGK (Water Danger/Protection) CAS# 1787-61-7: 2

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

CAS# 1787-61-7 is listed on Canada's DSL List.
This product has a WHMIS classification of D2B.
CAS# 1787-61-7 is not listed on Canada's Ingredient Disclosure Limits
Exposure Limits

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 12/12/1997 Revision #3 Date: 4/16/2002

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make that own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.