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CAT NO: 151712 PO NBR: 26345

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

Mercury 14020

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

MSDS Name: Mercury

MSDS Name: Negroup Catalog Numbers: S71967, S71968, M139-1LB, M139-5LB, M140-14LB, M140-1LB, M140-5LB, M141-1LB M141-6LB, NC9534278, S40672B, S41542, S41599, S41599B, S41599E, S41599G, S41599J, S41599K, S41599M, S41600P, S41600S, S41600W, S41630A, S41630B, S41630C, S41631, S41631A, S41631B, S41631C, S41645, S45245, S46981, S50443, S71966, S78777

Synonyms

Colloidal mercury; Hydrargyrum; Metallic mercury; Quick silver; Liquid silver

Company Identification: Fisher Scientific

1 Reagent Lane Fairlawn, NJ 07410

For information, call: 201-796-7100 Emergency Number: 201-796-7100 For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

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

CAS#	Chemical Name	*	EINECS#
7439-97-6	Mercury	ca.100	231-106-7

Hazard Symbols: T N Risk Phrases: 23 33 50/53

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

## EMERGENCY OVERVIEW

Appearance: silver liquid.
Danger: Harmful if inhaled. Corrosive. This substance has caused adverse reproductive and fetal effects in animals. May be absorbed through intact skin. May cause central nervous system effects. May cause liver and kidney damage. Inhalation of fumes may cause such that it is a such that it is May cause severe digestive tract irritation with possible burns. Possible sensitizer Target Organs: Blood, kidneys, central nervous system, liver, brain.

Potential Health Effects Eve:

Exposure to mercury or mercury compounds can cause discoloration on the front surface of the lens, which does not interfere with vision. Causes eye irritation and possible burns. Contact with mercury or mercury compounds can cause ulceration of the conjunctiva and cornea.

May be absorbed through the skin in harmful amounts. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes skin irritation and possible burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color. Ingestion:

May cause severe and permanent damage to the digestive tract. May cause perforation of the digestive tract. May cause effects similar to those for inhalation exposure. May cause systemic effects.

Inhalation: Causes chemical burns to the respiratory tract. Inhalation of fumes Causes chemical burns to the respiratory tract. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause central nervous system effects including vertigo, anxiety, depression, muscle incoordination, and emotional instability. Aspiration may lead to pulmonary edema. May cause systemic effects. May cause respiratory sensitization.

May cause liver and kidney damage. May cause reproductive and fetal effects. Effects may be delayed. Chronic exposure to mercury may cause permanent central nervous system damage, fatigue, weight loss, tremors, personality changes. Chronic ingestion may cause accumulation of mercury in body tissues. Prolonged or repeated exposure may cause inflammation of the mouth and gums, excessive and location of the tests. salivation, and loosening of the teeth.

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

Get medical aid immediately. Do NOT allow victim to rub or keep eyes closed. Extensive irrigation with water is required (at least 30

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minutes).

Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Ingestion: DO NOT induce vomiting. 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. Wash mouth out with

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

Notes to Physician:

The concentration of mercury in whole blood is a reasonable measure of the body-burden of mercury and thus is used for monitoring purposes. Treat symptomatically and supportively. Persons with kidney disease, chronic respiratory disease, liver disease, or skin disease may be at increased risk from exposure to this substance.

The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.

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

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire, During a fire, irritating and combustion:

| Compared to the contained of the composition of combustion of the contained of the contai

Extinguishing Media: Substance is nonflammable; use agent most appropriate to extinguish surrounding fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature: Not applicable. Flash Point: Not applicable.
Explosion Limits, lower:Not available.
Explosion Limits, upper:Not available.
NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 0

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

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

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Provide

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

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale. Use only in a chemical fume hood. Discard contaminated shoes. Do not breathe vapor.

Storage: Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Store protected from

\*\*\*\* 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 only under a chemical fume hood.

	Exposure	Limits	
Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
	0.025 mg/m3; skin - potential for cutaneous absorption	0.05 mg/m3 TWA (vapor) 10 mg/m3 IDLH	1 mg/10m3 Ceiling (vapor)

2.825

PAGE: 5 DATE: 11/08/05 ACCT: 569284001 G53113468 CAT NO: 151712 PO NBR: 26345 European Labeling in Accordance with EC Directives Hazard Symbols: T  $\ensuremath{\text{N}}$ Risk Phrases: R 23 Toxic by inhalation. R 33 Danger of cumulative effects. R 50/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Safety Phrases: 5 1/2 Keep locked up and out of reach of children. S 7 Keep container tightly closed. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where medical advice immediately (show the laws possible).
S 60 This material and/or its container must be disposed of as hazardous waste.
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets. WGK (Water Danger/Protection) CAS# 7439-97-6: 3 United Kingdom Occupational Exposure Limits CAS# 7439-97-6: OES-United Kingdom, TWA 0.025 mg/m3 TWA United Kingdom Maximum Exposure Limits Canada CAS# 7439-97-6 is listed on Canada's DSL List. This product has a WHMIS classification of D2A, E. CAS# 7439-97-6 is listed on Canada's Ingredient Disclosure List. This product has a WHMIS classification of D2A, E. CAS# 7439-97-6 is listed on Canada's Ingredient Disclosure List CAS# 7439-97-6: OEL-ARAB Republic of Egypt:TWA 0.05 mg/m3 OEL-AUSTRALIA:TWA 0.1 mg/m3;Skin OEL-BELGIUM:TWA 0.1 mg/m3;Skin OEL-HELGIUM:TWA 0.1 mg/m3;Skin OEL-HELGIUM:TWA 0.05 mg/m3

OEL-FRANCE:TWA 0.05 mg/m3;Skin (vapor)
OEL-FRANCE:TWA 0.1 mg/m3;Skin (vapor)
OEL-HUNGARY:TWA 0.05 mg/m3;Skin OEL-HUNGARY:TWA 0.05 mg/m3

OEL-SWITZERLAND:TWA 0.05 mg/m3

OEL-SWITZERLAND:TWA 0.05 mg/m3;Skin (vapor)
OEL-SWITZERLAND:TWA 0.01 mg/m3;Skin OEL-HUNGARY:TWA 0.05 mg/m3

OEL-SWITZERLAND:TWA 0.01 mg/m3;Skin OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA Check ACGIH TLV OEL-AUSTRALIA:TWA 0.15 mg(Hg)/m3;Skin JANUARY 1993

OEL-BELGIUM:TWA 0.05 mg(Hg)/m3;Skin JANUARY 1993

OEL-BELGIUM:TWA 0.05 mg(Hg)/m3;Skin JANUARY 1993

OEL-ECZECHOSLOVAKIA:TWA 0.05 mg(Hg)/m3;STEL 0.15 mg(Hg)/m3

OEL-FRANCE:TWA 0.05 mg(Hg)/m3 JANUARY 1993

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

MSDS Creation Date: 6/15/1999 Revision #5 Date: 3/18/2003

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## **MSDS**

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MONROE COUNTY BOARD OF EDUCATION 103 COLLEGE STREET

MADISON

TN 37354

2,824

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