

ALFA AESAR (A JOHNSON MATTHEY CO) -- SILVER WIRE, 11434 -- 9545-00-904-8522

===== Product Identification =====

Product ID:SILVER WIRE, 11434

MSDS Date:12/07/1995

FSC:9545

NIIN:00-904-8522

MSDS Number: CHVNJ

=== Responsible Party ===

Company Name:ALFA AESAR (A JOHNSON MATTHEY CO)

Address:30 BOND ST

City:WARD HILL

State:MA

ZIP:01835-0747

Country:US

Info Phone Num:978-521-6300

Emergency Phone Num:800

-424-9300 (CHEMTREC)

CAGE:MO202

=== Contractor Identification ===

Company Name:ALFA AESAR (A JOHNSON MATTHEY CO)

Address:30 BOND ST

Box:City:WARD HILL

State:MA

ZIP:01835-0747

Country:US

Phone:978-521-6300

CAGE:MO202

Company Name:JOHNSON MATTHEY CATALOG CO INC ALFA AESAR

Address:30 BOND ST

Box:City:WARD HILL

State:MA

ZIP:01835-0747

Country:US

Phone:978-521-6300

CAGE:0JVJ1

===== Composition/Information on Ingredients =====

Ingred Name:SILVER (SARA 313) (CERCLA)

CAS:7440-22-4

RT

ECS #:VW3500000  
Fraction by Wt: 100%  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INGEST: MAY CAUSE ARGYRIA.  
SKIN: NONE KNOWN. EYES: POWDER/DUST MAY CAUSE IRRIT. INHAL:  
POWDER/DUST MAY CAUSE IRRITATION, PIGMENTATION OF NASAL SEPTUM & MILD  
BRONCH. CHRONIC: ABSORPTION OF SILVER COMPOUNDS BY INGEST, INHAL/THRU  
SKIN CAN CAUSE ARGYRIA, A PERMANENT BLuish-GREY DISCOLORATION OF  
SKIN, (EFFECTS OF OVEREXPOSURE)  
Explanation of Carcinogenicity:NOT RELEVANT.  
Effects of Overexposure:HEALTH HAZ: CONJUNCTIVA & MUC MEMBRANES. GENERALIZED  
ARGYRIA DEVELOPS AFTER 2-25 YRS OF EXPOS. THERE ARE NO SYSTEMIC  
EFFECTS/SYMPTOMS & NO PHYSICAL DISABILITY. SILVER IS CONSIDERED AN  
EXPERIMENTAL EQUIVOCAL TUMORIGENIC AGENT  
BY RTECS CRITERIA.  
Medical Condition Aggravated by Exposure:NONE KNOWN.

===== First Aid Measures =====

First Aid:INGESTION: OBTAIN MEDICAL ATTENTION. SKIN: REMOVE  
CONTAMINATED CLOTHING, FLOOD SKIN WITH LARGE AMOUNTS OF WATER. IF  
IRRITATION PERSISTS SEEK MEDICAL ATTENTION. EYES: IMMEDIATELY  
FLUSH, INCLUDING UNDER EYELIDS, WITH LARGE AMOUNTS OF WATER FOR AT  
LEAST 15 MINUTES. CALL MD. INHALATION: OBTAIN MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Extinguishing Media:IF METAL IS BURNING USE DRY CHEMICAL, DRY SAND OR  
DRY GROUND DOLOMITE. ONLY POWDER FORMS ARE LIKELY TO BE FIRE  
HAZARD.  
Fire Fighting Procedures:WEAR NIOSH APPROVED SCBA AND FULL PROTECTIVE  
EQUIPMENT . NO SPECIAL FIREFIGHTING PROCEDURES NEEDED. IF WITHOUT  
RISK, REMOVE MATERIAL FROM FIRE AREA.  
Unusual Fire/Explosion Hazard:ONLY POWDER FORMS ARE LIKELY TO BE FIRE  
HAZARD.

===== Accidental Release Measures =====

asures =====

Spill Release Procedures:WEARING FULL PROTECTIVE EQUIPMENT, COVER SPILL WITH DRY SAND OR VERMICULITE. MIX WELL AND CAREFULLY TRANSFER TO A CONTAINER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED AREA.

Other Precautions:NOT KNOWN TO BE HAZARDOUS IN SOLID FORM.

===== Exposu  
re Controls/Personal Protection =====

Respiratory Protection:FOR FINE POWDER NIOSH APPROVED DUST MASK RESPIRATOR.

Ventilation:LABORATORY FUME HOOD. FOR FINE POWDERS USE A GLOVE BAG OR BOX WITH DRY INERT ATMOSPHERE.

Protective Gloves:RUBBER GLOVES.

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPROVED EMERGENCY EYEWASH & DELUGE SHOWER . WEAR LAB COAT, FLAME & CHEMICAL RESISTANT COVERALLS.

Work Hygienic Practices:WASH THOROUGHLY AFTER USE.

Supplemental Safety and Health

MATLS TO AVOID: ETHANOL + NITRIC ACID, ETHYLENE OXIDE, ETHYL HYDROPEROXIDE, IODOFORM, OZONIDES, PEROXOMONOSULFURIC ACID, PEROXYFORMIC ACID. SILVER MAY REACT WITH ACETYLENE, ACETYLENE COMPOUNDS OR AM MONIA TO FORM SHOCK SENSITIVE SOLIDS.

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:4010F,2210C

Melt/Freeze Pt:M.P/F.P Text:1761F,961C

Vapor Pres:0

Vapor Density:10.49

Spec Gravity:10.491 (H\*2O=1)

Solubility in

Water:INSOLUBLE

Appearance and Odor:SOFT, DUCTILE, LUSTROUS WHITE METAL WITH NO ODOR.

Percent Volatiles by Volume:0

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACETYLENE, ACETYLENE CMPDS, AMMONIA, BROMOAZIDE, CHLORINE TRIFLUORIDE,  
ETHYLENE IMINE, HYDROGEN PEROXIDE, OXALIC ACID, TARTARIC ACID,  
MINERAL ACIDS, OXIDIZERS, 3-BROMOPROPYNE, CARBOXYLIC ACIDS, COPPER  
+ ETHYLENE GLYCOL, ELE

Stability Condition to Avoid:HEAT,  
SPARKS, AND FLAME FOR POWDER.

Hazardous Decomposition Products:SILVER OXIDES.

===== Disposal Considerations =====

Waste Disposal Methods:CONSULT STATE, LOCAL OR FEDERAL EPA REGULATIONS  
FOR PROPER DISPOSAL.

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