

ALFA AESAR (A JOHNSON MATTHEY CO) -- SILVER WIRE, 11434 -- 9545-00-904-8550

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

Product ID:SILVER WIRE, 11434

MSDS Date:12/07/1995

FSC:9545

NIIN:00-904-8550

MSDS Number: CHVNP

=== 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 HAZARD: CONJUNCTIVA & MUCOUS MEMBRANES. GENERALIZED  
ARGYRIA DEVELOPS AFTER 2-25 YEARS OF EXPOSURE. 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-BROMEPROPYNE, 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.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.