



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 05-21-96

CHEMICAL IDENTITY

LABEL IDENTITY	SILVER OXIDE
CHEMICAL NAME/SYNONYMS	SILVER OXIDE
FORMULA	Ag₂O
CHEMICAL FAMILY	METAL OXIDE
MOLECULAR WEIGHT	NA
HAZARDOUS INGREDIENTS	CADMIUM OXIDE
%: 100	TLV: 0.01MG Ag/m³ OSHA/PEL: 0.1mg Ag/m³

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	Brownish/Black powder, odorless
BOILING POINT	ND
DENSITY (gm/cc)	NA
VAPOR PRESSURE @ 20°	NA
% VOLATILE BY VOLUME (%)	NA
REACTION WITH WATER	ND
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	0.0017 grams/100 ml water @ 20 °C
MELTING POINT	230 ° C - decomposes
SPECIFIC GRAVITY (H ₂ O=1)	7.22 @ 25 °C
OTHER	ND

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NA
AUTOIGNITION TEMPERATURE (°C)	ND
FLAMMABILITY	Non-flammable
EXTINGUISHING MEDIA	Use water, carbon dioxide, dry chemical extinguishing agents, dry sand, or dry ground dolomite. Silver (I) oxide is an oxidizing agent and may enhance the burning of combustible substances. Fire hazard when in contact with organic materials or ammonia - Explosion hazard when in contact with ammonia.
SPECIAL FIRE FIGHTING PROCEDURES	Use normal procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing; hats, boots and gloves. If without risk, remove material from fire area. Cool container with water from max.

HEALTH HAZARD INFORMATION

TOXICITY DATA	LD50: oral-rat: 2820mg/kg	LC50: No data,	OTHER: No data
	OSHA (PEL): 0.01 mg Ag/m ³	ACGIH (TLV): 0.1 mg Ag/m ³	



SILVER (I) OXIDE MATERIAL SAFETY DATA SHEET

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	High efficiency particle respirator
LOCAL EXHAUST	ND
MECHANICAL (general)	ND
VENTILATION REQUIREMENTS	Laboratory fume hood
OTHER PROTECTIVE CLOTHING	SEE BELOW
PROTECTIVE GLOVES	ND
EYE PROTECTION	ANSI approve safety goggles

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

Protect from light. Keep container tightly closed. Store in cool, dry, well-ventilated area. Wash thoroughly after using.

OTHER PRECAUTIONS

Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

TRANSPORTATION REQUIREMENTS	DOT CLASS:	Not Classified
	UN NUMBER:	NC
	IMCO CLASS:	NC
	OTHER:	---

PRECAUTIONARY LABELING **ND**

THIS PRODUCT CONTAINS A SILVER COMPOUND WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF F1986 AND 40CFR 372.

THE ABOVE INFORMATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, SINCE DATA, SAFETY STANDARDS AND GOVERNMENT REGULATIONS ARE SUBJECT TO CHANGE THE CONDITIONS OF HANDLING AND USE, OR MISUSE ARE BEYOND OUR CONTROL, **ANGSTROM SCIENCES** MAKE NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR THE RELIANCE THEREON. USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.

NA= NOT APPLICABLE

ND= NO DATA FOUND