



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

DATE OF LAST REVISION: 3-11-04

CHEMICAL IDENTITY

LABEL IDENTITY	GERMANIUM OXIDE
CHEMICAL NAME/SYNONYMS	GERMANIA, GERMANIC ACID, GERMANIUM OXIDE
FORMULA	GeO₂
CAS REGISTRY NUMBER	1310-53-8, LISTED IN THE TSCA INVENTORY

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM ODOR	WHITE POWDER
MOLECULAR WEIGHT	104.59 AMU
PH	NA
BOILING POINT	NA
DENSITY (gm/cc)	NA
VAPOR PRESSURE @ 20°	NA
% VOLATILE BY VOLUME (%)	NA
REACTION WITH WATER	NA
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	NA
MP/MP RANGE	400° C
FREEZING POINT	NA

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NA
AUTOIGNITION TEMPERATURE (°C)	NA
FLAMMABILITY	NA
EXTINGUISHING MEDIA	Suitable: Noncombustible. Use extinguishing Media appropriate to surrounding fire conditions.
SPECIAL FIRE FIGHTING PROCEDURES	Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.



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HEALTH HAZARD INFORMATION

EMERGENCY FIRST AID PROCEDURES:

ORAL EXPOSURE: **If swallowed, wash out mouth with water provided person is conscious. Call a physician.**

INHALATION EXPOSURE: **If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.**

DERMAL EXPOSURE: **In case of contact, immediately wash skin with soap and copious amounts of water.**

EYE EXPOSURE: **In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.**

TARGET ORGAN (S) OR SYSTEM (S): **Damage to kidneys. Damage to liver.**

REACTIVITY DATA

MATERIALS TO AVOID

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Nature of decomposition products not known.

SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations for proper disposal.

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION

Government approved respirator

LOCAL EXHAUST

Required

MECHANICAL (general)

Recommended

PROTECTIVE GLOVES

Compatible chemical-resistant gloves

EYE PROTECTION

Chemical safety glasses

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:

Store in tightly closed containers in a cool, dry place. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.



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TRANSPORTATION REQUIREMENTS

DOT CLASS: **Not Classified**
UN NUMBER: **NC**
IMCO CLASS: **NC**
OTHER:

PRECAUTIONARY LABELING

Non-hazardous for air transport

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NA= NOT APPLICABLE

ND= NO DATA FOUND