

G&S Titanium, Inc. Material Safety Data Sheet

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SECTION 1 - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME: VARIOUS

PRODUCT NAME: ZIRCONIUM METAL

SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL COMPONENTS	%*	C.A.S. NUMBER	OSHA EXPOSURE LIMITS	
			TWA(mg/m3)	STEL (mg/m3)
ZIRCONIUM (Zr)	99	7440-67-7	5	10

*COMPOSITION VARIES WITH TYPE OF MATERIAL.

SECTION 3 - PHYSICAL DATA

ZIRCONIUM METAL IS SHIPPED AS SOLID METAL FORMS.
APPEARANCE AND ODOR IS SIMILAR TO STAINLESS STEEL.
NOT SOLUBLE IN WATER.

SECTION 4 - FIRE AND EXPLOSION DATA

SOLID METAL WILL NOT IGNITE.

SECTION 5 - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

INCOMPATIBILITY: ZIRCONIUM METAL IS RAPIDLY DISSOLVED BY HYDROFLUORIC ACID OR HYDROFLUORIC-NITRIC ACID MIXTURES.

ABOVE 200C, ZIRCONIUM REACTS EXOTHERMICALLY WITH FLUORINE, CHLORINE, BROMINE, IODINE, AND HALOCARBONS INCLUDING CARBON TETRACHLORIDE AND CARBON TETRAFLUORIDE.

NITRYL FLUORIDE WILL INITIATE A REACTION WITH ZIRCONIUM METAL AT ROOM TEMPERATURE TO PRODUCE A GLOWING OR WHITE ICANDESCENCE.

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: (INHALATION, INGESTION, SKIN ABSORPTION) = NONE
TARGET ORGANS: NONE
TOXICITY DATA: ZIRCONIUM METAL IS NONTOXIC
CORROSIVE: NO
CARCINOGEN: NO
ACUTE AFFECTS: NONE
CHRONIC AFFECTS: NONE

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: NOT APPLICABLE
INGESTION: NOT APPLICABLE
SKIN CONTACT: NOT APPLICABLE
EYE CONTACT: NORMAL PROCEDURE FOR FOREIGN OBJECT

SECTION 7 - SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURE: NO SPECIAL PROCEDURE

WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

SECTION 8 - SPECIAL PROTECTION

SOLID FORM: USE OF GLOVES ADVISABLE TO AVOID CUTS

SECTION 9 - SPECIAL PRECAUTIONS

MACHINING OF ZIRCONIUM MAY RESULT IN FINE TURNINGS OR CHIPS. ANY MATERIAL WITH A DIMENSION LESS THAN 0.0625 INCH (1/16") OR A CROSS SECTION LESS THAN 0.0078 INCH SQUARE (1/16" X 1/8"), IF PRESENT IN ANY QUANTITY, CAN BE IGNITED AND CAN SUSTAIN COMBUSTION. KEEP AWAY FROM ANY SOURCE OF IGNITION.

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