

VICTOR®**MATERIAL SAFETY DATA SHEET**Date Prepared: January 1, 1991
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Core Part No: 1440-0031

CHEMTREC Phone No. (800) 424 - 9300

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2800 Airport Road
Denton, Texas 76207(940) 566 - 2000
Fax: (940) 381 - 1222This MSDS is based on air/fuel or oxy/fuel process.
There may be other cautions for electric process.**Material Safety Data Sheet****SECTION I - MATERIAL IDENTIFICATION**

Product Name: Wear Prevention Powder #600 (1440-0031)

Product use: Alloy Blend

SECTION II - HAZARDOUS INGREDIENTSOSHA Hazardous Components (29 CFR 1910.1200) EXPOSURE LIMITS: 8 HR. TWA
OSHA PEL ACGIH TLV

OSHA Hazardous Components (29 CFR 1910.1200)	CAS#	OSHA PEL	ACGIH TLV	
Chromium, Cr	CAS# 7440-47-3	0.5 mg/m ³	0.5 mg/m ³	Fume
Boron, B	CAS# 7440-42-8	10.0 mg/m ³	10.0 mg/m ³	Dust
Iron, Fe	CAS# 1309-37-1	10.0 mg/m ³	10.0 mg/m ³	
Nickel, Ni	CAS# 7440-02-0	1.0 mg/m ³	1.0 mg/m ³	Dust
Silicon, Si	CAS# 7440-21-3	5.0 mg/m ³	5.0 mg/m ³	Dust
Tungsten	CAS# 7440-33-7	1.0 mg/m ³	1.0 mg/m ³	Soluble

SECTION III - HAZARDS IDENTIFICATIONS**“Warning:** This product contains or produces a chemical known to the State of California to cause cancer. (California Health & Safety Code Sec. 25249.5 *et seq.*)”**EMERGENCY OVERVIEW:** Dust extremely irritating to respiratory tract. At elevated temperatures, may cause irritation of the eyes and respiratory tract. Suspect cancer hazard. Powdered material may form explosive dust-air mixtures.**POTENTIAL HEALTH EFFECTS:****INHALATION:** Prolonged or repeated inhalation may cause respiratory tract irritation.**EYE CONTACT:** Substance causes substantial eye irritation.

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SKIN CONTACT: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INGESTION: Irritating to mouth, throat and stomach.

CHRONIC: Suspect cancer hazard which may cause cancer - contains Nickel.

CARCINOGENICITY: LISTED IN NTP? Yes IARC? Yes OSHA Regulated? No

SECTION IV - FIRST AID MEASURES

INHALATION: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

SECTION V - FIRE FIGHTING MEASURES

Flashpoint (Method): Non-Flammable material.

Flammable Limits: Lower: Upper:

Autoignition Temperature:

GENERAL HAZARD: Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dusts at sufficient concentrations can form explosive mixtures with air.

FIRE FIGHTING INSTRUCTIONS: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: Use dry sand or earth to smother fire.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, oxides of carbon and metal alloys.

SECTION VI - ACCIDENTAL RELEASE MEASURES

AND SPILL: Vacuum or sweep up material and place in a disposal container. Collect scrap

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for remelting. Do not flush into sewer.

WATER SPILL: Collect material and place in a chemical waste container for disposal.

SECTION VII - HANDLING AND STORAGE

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Store away from heat. Store in a dry area.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

PERSONAL PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PROTECTIVE CLOTHING: Wear safety glasses with side shields (or goggles) and a face shield.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure:	NA	Vapor Density (Air=1):	NA
Specific Gravity:	10.7	Evaporation Rate	
Solubility in Water:	Insoluble	(n-Butyl Acetate=1):	NA
pH:	NA	Freezing Point:	NA
Boiling Point:	Decomposes		
Appearance & Odor:	Gray powder with no odor.		

SECTION X - STABILITY AND REACTIVITY

GENERAL: Stable

INCOMPATIBLE MATERIALS: Strong acids and oxidizers.

CONDITIONS TO AVOID: Extreme heat.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION XI - TOXICOLOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

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Collect for recovery. Classification required before disposal. Follow all federal, state and local requirements.

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Wear Prevention Powder #600, not regulated.
HAZARD CLASS: None
IDENTIFICATION NUMBER: None
DOT Emergency Guide #: None
Reportable Quantity (RQ): None

SECTION XV - REGULATORY INFORMATION

TSCA (Toxic Substance Control Act) All components are listed on the TSCA inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):
None. We recommend that you contact local authorities for other reporting requirements.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories: Acute, Chronic

313 Reportable Ingredients: Nickel compounds (48%), Chromium compounds (10%).

SECTION XVI - OTHER INFORMATION

Hazards, as defined by OSHA 29 CFR 1910.1200, may result from fume or dust generated during brazing. The composition and quantity of both are dependent upon the metal being brazed and the procedures being used. Other conditions which influence the hazards associated with brazing include the filler material, the coatings on the metal, the number of people being exposed, and the quality of the ventilation. It is recommended that the composition of the fumes, gases, and dust to which the workers are exposed be classified by sampling the air in the worker's breathing zone and performing a hazard evaluation. See ANSI/AWS f1.1 available from the American Welding Society, P.O. Box 351040, Miami, FL 33135.

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FOOTNOTES:

NA - Not Applicable NE - Data Not Established CS - Cancer Suspect Agent OX - Oxidizer ND - No Data Cor - Corrosive

CALC - Calculated EST - Estimated STEL - Short Term Exposure Limit TLV - Threshold Limit Value

PEL - Permissible Exposure Limit TWA - Time Weighted Average, 8 hours

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE. NEITHER THE SELLER NOR PREPARER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE INFORMATION PRESENTED.