## MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Composition/Information on Ingredient

Cas:

7440-62-2 Code: Μ

**RTECS:** YW1355000 Code: Μ Name:

VANADIUM (SARA III)

**Other REC Limits:** 

0.05 MG/M3 (V205)

NK

**OSHA PEL:** 

**OSHA STEL:** 

**ACGIH TLV:** 

**ACGIHSTEL:** 

**Ventilation:** 

**Protective Gloves:** 

**Eye Protection:** 

0.05 MG/M3 (V205)

**Control Measures** 

SURVEILLANCE: EXPOS(ING 22)

IMPERVIOUS GLOVES (FP N).

**Other Protective Equipment:** 

**Work Hygienic Practices:** 

COBALT: IARC (ING 13)

LD50LC50Mixture:

YES

Skin: NO

IARC: YES

OSHA: NO

DATA)

First Aid:

Ingestion:

CHEMICAL SAFETY GOGGLES (FP N).

METAL HNDLG OPERATIONS AS (ING 24)

NONE SPECIFIED BY MANUFACTURER.

**Supplemental Safety and Health:** 

Health Hazards Data

NONE SPECIFIED BY MANUFACTURER.

**Route Of Entry Inds - Inhalation:** 

**Carcinogenicity Inds - NTP:** 

**Health Hazards Acute And Chronic:** 

**Explanation Of Carcinogenicity:** 

FURTHER INFORMATION (FP N).

**Spill Release Procedures:** 

MATLS COLLECTED(ING 17)

**Waste Disposal Methods:** 

MIN SPILL/RELS POTNTL.

**Other Precautions:** 

Flash Point Method:

(ING 21)

N/P

**NONE** 

N/A

NONE

NONE

(SUPDAT)

HCC:

NRC/State LIC No:

**Boiling Point:** 

Melt/Freeze Pt:

M.P/F.P Text: 2475F,1357C

**Decomp Temp:** 

**Decomp Text:** 

**Vapor Pres:** 

**Vapor Density:** 

Spec Gravity: 8.38 (H\*2O=1)

PH: N/K

Viscosity:

N/P

NONE

**NONE** 

N/K

YES

**VOC Pounds/Gallon:** 

**VOC Grams/Liter:** 

NOT APPLICABLE

**Corrosion Rate:** 

**Stability Indicator:** 

**Materials To Avoid:** 

(SUPDAT)

NOT RELEVANT

Information:N/P

Information:N/P

Solubility in Water:

**Appearance and Odor:** 

**Evaporation Rate & Reference:** 

POWDER, GRAY COLOR; NO ODOR.

**Percent Volatiles by Volume:** 

Reactivity Data

**Stability Condition To Avoid:** 

NONE SPECIFIED BY MANUFACTURER.

**Hazardous Decomposition Products:** 

**Hazardous Polymerization Indicator:** 

**Conditions To Avoid Polymerization:** 

**Toxicological Information** 

Regulatory Information

Sara Title III Information: N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

Other Information

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Other Information:N/P

**MSDS Transport Information** 

**Volatile Org Content %:** 

N/K

N/A

N/A

**B.P. Text:** 

N/A

**Net Prop WT For Ammo:** 

Flash Point:

**Flash Point Text:** 

**Autoignition Temp:** 

**Lower Limits:** 

**Upper Limits:** 

**Extinguishing Media:** 

Fire Fighting Procedures:

**Unusual Fire/Explosion Hazard:** 

USED TO PVNT FIRE BY AVOIDING (SUPDAT)

Physical/Chemical Properties

NO UNUSUAL FIRE OR EXPLOSION HAZARDS ARE ASSOCIATED W/THIS MATERIAL.

**Autoignition Temp Text:** 

NONE SPECIFIED BY MANUFACTURER.

**Handling And Storage Precautions:** 

**Neutralizing Agent:** 

**Signs And Symptions Of Overexposure:** 

**Medical Cond Aggravated By Exposure:** NONE SPECIFIED BY MANUFACTURER.

WASHING W/SOAP & WATER. IF IRRIT PERSISTS OBTAIN(ING 14)

Fire and Explosion Hazard Information

**Respiratory Protection:** 

Code:

Code:

Code: Μ

NΡ Code:

Μ

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USE NIOSH/MSHA APPROVED RESPIRATORS AS SPECIFIED BY INDUSTRIAL HYGIENIST OR QUALIFIED SAFETY PROFESSIONAL. LUNG FUNCTION TESTS ARE RECOMMENDED FOR USERS OF NEGATIVE PRESSURE DEVICES.

LOC EXHST VENT SHOULD BE USED TO CONTROL EXPOS TO AIRBORNE DUST & FUME WHENEVER POSS. ENVIRON

Equipment PROT CLTHG SUCH AS UNIFORMS, DISPOSABLE COVERALLS, SFTY SHOES, ETC MAY BE REQD DURING

8 EXT MEDIA: GRAPHITE/OTHER CLASS "D" FIRE EXTING PWDR. FIRE FIGHT PROC: SOURCES OF IGNIT, FLAMES, ETC.

MONOGRAPHS, SUPP, VOL 7, PG 264, 1987:GRP 2B. NTP 7TH ANNUAL RPT ON CARCINS, 1992:ANTIC TO BE A CARCIN.

INHAL: DUST, FUME OR POWDER MAY RESULT FROM THERMAL SPRAYING, WELDING, METALLIZING OR SIMILAR OPERATIONS WHICH GENERATE AIRBORNE METAL PARTICULATE. SKIN: CONTACT W/THIS MATERIAL MAY CAUSE, IN SOME SENSI TIVE INDIVIDUALS ALLERGIC

CHROMIUM: IARC MONOGRAPHS, VOL 49, PG 49, 1990: GRP 1. NTP 7TH ANNUAL RPT ON CARCINS, 1992: KNOWN TO BE CARCIN. (SUPP

EYES: PARTICULATE METAL (DUST, FUME OR POWDER) MAY BE DANGEROUS TO EYE & SURROUNDING TISSUE. CONTACT NE HC FOR

INHAL: BRTHG DFCLTY REOS REMOVAL TO FRESH AIR. IF BRTHG HAS SPED, PERFORM ARTF RESP & OBTAIN MED ASSISTANCE AT ONCE. INGEST: CAN BE TREATED BY HAVING AFFECTED PERS SWALLOW LG QTYS OF WATER & ATTEMPTI NG TO INDUCE VOMIT IF CONSCIOUS.

OBTAINMED ASSISTANCE AT ONCE. SKIN: CUTS & ABRASIONS CAN BE TREATED BY STD FIRST AID. CONTAM CAN BE REMOVED BY

IN PWDR/DUST FORM, CLEAN-UP SHOULD BE CONDUCTED W/VACUUM SYS UTILIZING HIGH EFFICIENCY PARTICULATE AIR FILTRATION SYS. CAUT SHOULD BE TAKEN TO MIN AIRBORN GENERATION OF PWDR/DUST & AVOID CONTAM OF AIR & WATER. PROPERLY LBL ALL

PRIOR TO DISP CONSIDER IF MATL HAS RECOVERY VALUE. LOC, STATE/FED REGS MAY REQ SPECIFIC LABELING, PACKING, STOR,

7 THIS PROD MUST BE HNDLD ACCORDING TO SIZE, SHAPE & QTY OF MATL INVOLVED. PWDRS SHOULD BE MOVED/TRANSPORTED TO

STORE METAL & METAL PWDR IN DRY AREA. DO NOT STORE ADJACENT TO MINERAL ACIDS. THIS IS NOT REGARDED AS FLAMM MATL, HOWEVER, IF THIS PWDR IS ATTRITIONED/REDUCED IN PARTICULAR SIZE, CAUT SHOULD BE TAKEN TO KEEP AWAY FROM FLAMES &

THIS ALLOY IS NONCOMBUST. USE EXTING MEDIA APPROP TO SURROUND FIRE. TO EXTING METAL PWDR FIRE USE DRY SAND, DRY

USE NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP (FP N). IF THIS PWDR IS ATTRITIONED/REDUCED IN PARTICLE SIZE, CAUT MUST BE

AVOID CONT W/MINERAL ACIDS &OXIDIZING AGENTS WHICH MAY GENERATE HYDROGEN GAS; EVOLUTION OF HYDROGEN MAY BE EXPLO

VARIOUS ELEMENTAL METALS &METAL OXIDES MAY BE GENERATED DURING THERMAL SPRAYING, WELDING, METALLIZING/SIMILAR

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TRANSPORTATION & DISP PROCS. CONT ENVIRON ENGINEER/CONSULTANT FAMILIAR W/WASTE DISP REG S.

RESPONSE IF ELEMENTS SUCH AS CHROMIUM, COBALT, COPPER & NICKEL ARE PRESENT. (EFTS OF OVEREXP)

HLTH HAZ: IN FORM OF METAL OR POWDER, CONTACT OR ABRASION MAY ALSO CAUSE IRRITATION OR DERMATITIS.

HAZ DECOMP PROD:OPERATIONS. REFER TO ING SECTION FOR PELS. EXPLAN OF CARCIN:NICKEL:IARC