View NSN Online: https://aerobasegroup.jp/nsn/3439-01-478-2745

Product ID:METCO 82VF-NS, DIAMALLOY 3005 MSDS Date:05/10/1996 FSC:3439 NIIN:01-478-2745 Status Code:A MSDS Number: CLPHK === Responsible Party === Company Name:SULZER METCO (US) INC Address:1101 PROSPECT AVE Box:1006 City:WESTBURY State:NY ZIP:11590-0201 Country:US Info Phone Num:516-334-1 300 Emergency Phone Num:800-424-9300 Resp. Party Other MSDS Num.:50-510 Chemtrec Ind/Phone:(800)424-9300 CAGE:01FK3 === Contractor Identification === Company Name:SULZER METCO (US) INC Address:1101 PROSPECT AVE Box:City:WESTBURY State:NY ZIP:11590-2724 Country:US Phone:516-334-1300 CAGE:01FK3

Ingred Name:CHROMIUM CAS:7440-47-3 RTECS #:GB4200000 = Wt:82. OSHA PEL:1 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

I

ngred Name:NICKEL CAS:7440-02-0 RTECS #:QR5950000 = Wt:5.5 OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:100 LBS DOT Rpt Qty:100 LBS Ingred Name:CARBON CAS:7440-44-0 RTECS #:FF5250000 = Wt:12.5 OSHA PEL:10 MG/M3 ACGIH TLV:2 MG/M3 Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES Health Hazards Acute and Chronic: EYE CONTACT: POSSIBLE CONJUNCTIVAL **IRRITATION, LACRIMATI** ON. SKIN CONTACT: POSSIBLE DERMITITIS, SENSITIZATION OR CHROME LESIONS, DISCOLORATION. INHALTION: POSSIBLE IRRITATION TO THE RESPIRATORY SYSTEM, MUCOUS MEMBRANE IRRITAITON OR ULCERATION. INGESTION: POSSIBLE IRRITATION TO GASTROINTESTINAL TRACT AND RESPIRATORY SYSTEM, LOSS OF MUSCULAR COORDINATION, CONFUSION AND CONVULSIONS. Explanation of Carcinogenicity: ACGIH CLASSIFIED A1 CONFIRMED HUMAN CARCINOGEN. IARC CLASSIFICATION GROUP 1 CACINOGENIC TO HUMANS. NTP CLASSIFIES NICKEL AS REASONABLY ANTICIPATED TO BE CARCINOGENS. HEXAVALENT CHROMIUM FORMED DURING THE THERMAL SPRAY PROCESS IS A CARCINOGEN THAT MAY CAUSE BRONCHOGENIC, LUNG AND STOMACH CANCER. SEE CHROMIUM IN "OTHER INFO" FIELD FOR ADDITIONAL INFORMATION. Effects of Overexposure: EYE CONTACT: CONJUNCTIVAL IRRITATION, LACRIMATION. SKIN CONTACT: DERMITITIS, SENSITIZATION, CHROME LESIONS, DISCOLORATION. INHALTION: IRRITATION OF RESPIRATORY SYSTEM, MUCOUS MEMBRANE IRRITAITON, ULCERA TION. INGESTION: IRRITATION OF GASTROINESTINAL TRACT AND RESPIRATORY SYSTEM, LOSS OF MUSCULAR COORDINATION, CONFUSION, CONVULSIONS. Medical Cond Aggravated by Exposure: CONSULT A PHYSICIAN. 

First Aid:EYE CONTACT: FLUSH WITH WATER FOR 15-20 MINUTES, WHILE HOLDING EYELIDS OPEN. IF IRRITATION PERSISTS, CONSULT PHYSICIAN. SKIN CONTACT: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, CONSULT PHYSICIA N. INHALT ION: MOVE TO FRESH AIR. CONSULT PHYSICIAN IF IRRITATION OR RESPIRATORY DISTRESS PERSISTS. INGESTION: CONSULT PHYSICIAN.

Extinguishing Media:USE CLASS D FIRE EXTINGUISHER OR SAND. Fire Fighting Procedures:TREAT AS METALLIC FIRE. USE NIOSH / MSHA APPPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING IF INVOLVED IN FIRE. (CONTD. FROM "EXPLOSION HAZARD") MAY BE EXPLOSIVE WHEN EXPOSED T O HE

AT, FLAME OR OXIDES, PEROXIDES, OXOSALTS, HALOGENS, INTERHALOGENS, OXYGEN, BROMATES, CHLORATES, AND IODATES.

Unusual Fire/Explosion Hazard:FINE METAL DUSTS ARE FLAMMABLE AND MAY EXPLODE WHEN EXPOSED TO HEAT/FLAME/OXIDIZERS. CHROMIUM MAY IGNITE IF AIRBORNE IN THE PRESENCE OF AN IGNITION SOURCE. CARBON REACTS VIOLENTLY WITH CHLORINE TRIFLU ORIDE, POTASSIUM, FLUORINE AND POTASSIUM SUPEROXIDE. DUSTS OF CARBON (CONTD. SEE "FIRE FIGHTING PROCEDURE")

Spill Release Procedures: EMPTY PRODUCT CONTAINERS, PRODUCT WASTE, AND CLEANING MEDIA SHOULD BE STORED AND DISPOSED OF ACCORDING TO THE APPROPRIATE LOCAL, STATE AND FEDERAL REGULATORY GUIDELINES.

Handling and Storage Precautions:STORAGE / HANDLING: STORE AWAY FROM INCOMPATIBLES. STORE PRODUCT CONTAINERS IN A WELL-VENTILATED CLEAN, COOL, AND DRY AREA. STORE IN A MANN
ER TO MINIMIZE PUNCTURES AND BREAKAGE OF CONTAINERS.
Other Precautions:AVOID INGESTION, INHLATION, AND EXCESSIVE SKIN CONTACT.

Respiratory Protection: A RESPIRATOR APPROVED BY NIOSH WITH FILTER CARTRIDGES APPROVED FOR DUST/FLAMES/MISTS SHOULD BE WORN AT ALL TIMES DURING THE THERMAL SPRAY PROCESS TO PROTECT THE OPERATOR FROM EXPOSURE TO DUST AND FLAM ES. RESPIRATORS MAY ALSO BE WORN WHEN PRODUCT HANDLING GENERATES DUST.

Ventilation: PRODUCT SHOULD BE USED WITH THE APPROPRIATE LOCAL EXHAUST VENTILATION .

Protective Gloves: ALUMINIZED GLOVES TO BE WORN DURING PLASMA SPRAY PROCESS.

Eye Protection: GOGGLES WITH APPROPRIATE LENS SHADE

Other Protective Equipment:EAR PROTECTION MUST BE WORN WHEN THE OPERATOR IS SUBJECTED TO EXCESSIVE NOISE LEVELS. WEAR AN ALUMINIZED APRON DURING PLASMA SPRAY PROCESS. OTHER APPROPRIATE PROTECTIVE CLOTHING MAY(CONTD. SEE "SUPPL")

Work Hygienic Practices:

EYE WASH STATIONS AND WASH FACILITIES ARE

RECOMMENDED. RUBBER OR OTHER APPROPRIATE GLOVES MAY BE WORN AS NECESSARY DURING OTHER THAN PLASMA SPRAY PHASE OF PRODUCT HANDLING TO AVOID EXCESS SKIN CONTACT.

Supplemental Safety and Health

(CONTD. FROM "OTHER PROTECT EQUIP.") BE WORN AS NECESSARY DURING PRODUCT HANDLING TO AVOID EXCESSIVE CONTACT WITH THE SKIN.

HCC:T7 Melt/Freeze Pt:=1204.4C, ######F M.P/F.P Text:22 00F-2700F Spec Gravity:2.8 (H20=1) Solubility in Water:INSOLUBLE Appearance and Odor:POWDER; NO ODOR

Stability Indicator/Materials to Avoid:YES

CHROMIUM IS INCOMPATIBLE WITH STRONG OXIDIZERS, NICKEL IS INCOMPATIBLE WITH ACIDS, SULFUR, SELENIUM, WOOD OTHER COMBUSTIBLES AND NICKEL NITRATE. CARBON IS INCOMPATIBLE WITH AIR, METALS, OXIDANTS, AND UNSATURATED OILS.

Hazardous Decomposition Products:OZONE AND NITRIC ACID A RE FORMED BY

PLASMA FLAME (SIMILAR TO WELDING FLAMES).THIS ACTION IS INDEPENDENT OF METAL POWDER.HAZARDOUS DECOMPOSITION PRODUCTS OF CARBON ARE CARBON MONOXIDE AND CARBON DIOXIDE. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Toxicological Information:NICKEL: HAZARD BY INHALATION, INGESTION, SKIN AND EYE CONTACT. INHALATION MAY CAUSE IRRITATION 0F RESPIRATORY SYSTEM, CENTRAL NERVOUS SYSTEM DEPRESSION, C ANCERS OF LUNG AND

NASAL SINUSES. INGESTION MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT, LOSS OF MUSCULAR COORDINATION, CONFUSION,, CONVULSIONS. SKIN CONTACT MAY CAUSE DERMATITIS. EYE CONTACT MAY CAUSE IRRITATION. ACGIH CLASSIFIED A1 CONFIRMED HUMAN CARCINOGEN. IARC CLASSIFICATION GROUP 1 CARCINOGENIC TO HUMANS. NTP CLASSIFIES NICKEL AS REASONABLY ANTICIPATED TO BE CARCINOGENS. TARGET ORGANS: RESPIRATORY SYSTEM CENTRAL NERVOUS SYSTEM, GAS TROINTESTINAL TR ACT

, SKIN, EYES.

Ecological:TOXICOLOGICAL CONTD: CARBON: HAZARD BY INHALATION, INGESTION, SKIN, AND EYE CONTACT. INHALATION MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM. INGESTION MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM AND GASTROINTESTINAL TRACT. SKIN AND EYE CONTACT MAY CAUSE IRRITATION. TARGET ORGANS: RESPIRATORY SYSTEM, GASTROINTESTNAL TRACT, SKIN, EYES.

====== Disposal Considerat

Waste Disposal Methods: EMPTY PRODUCT CONTAINERS, PRODUCT WASTE AND CLEANING MEDIA SHOULD BE STORED AND DISPOSED OF ACCORDING TO THE APPROPRIATE LOCAL, STATE AND FEDERAL REGULATORY GUIDELINES.

Transport Information:UNIT OF ISSUE IS 5 POUND CONTAINER. RQ FOR NICKEL: 100 POUNDS; RQ FOR CHROMIUM: 5000 POUNDS. PARTICLE SIZE