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Product ID:COPPER-PHOSPHORUS BRAZING ALLOYS MSDS Date:12/09/1997 FSC:3439 NIIN:00-368-8536 Status Code:A MSDS Number: CKNSZ === Responsible Party === Company Name: R & D METALS AND CHEMICALS INC Address:201C PERIMETER PARK Box:22533 City:KNOXVILLE State:TN ZIP:37922 Country:U S Info Phone Num: 423-531-6065/800-645-7476 Emergency Phone Num:800-645-7476 CAGE:56406 === Contractor Identification === Company Name: R & D METALS & CHEMICALS, INC Address:201C PERIMETER PARK Box:22533 City:KNOXVILLE State:TN ZIP:37922-2233 Country:US Phone: 423-531-6065 / FAX: 423-531-2044 CAGE:56406

Ingred Name:COPPER CAS:7440-50-8 RTECS #:GL5325000 Minumum % Wt:91.05 Maxumum % Wt:95. OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA R pt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:PHOSPHORUS CAS:7723-14-0 RTECS #:TH3495000 Minumum % Wt:5. Maxumum % Wt:8.95 OSHA PEL:0.1 MG/M3 ACGIH TLV:0.1 MG/M3;0.02 PPM EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

LD50 LC50 Mixture:NO DATA PROVIDED BY RESPONSIBLE PARTY. Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: INHALATION: INHALATION OF THE COMPONENTS AT HIGH CONCENTRATIONS OF

DUSTS/FUMES MAY CAUSE

RESPIRATORY TRACT IRRITATION AND/OR METAL FUME FEVER. SKIN: MAY CAUSE IRRITATION, DISCOLORATION, &/OR CO NTACT DERMATITIS. EYE: CONTACT WITH THESE PRODUCTS IN FINELY-DIVIDED FORMS MAY CAUSE IRRITATION, CONJUNCTIVITIS, &/OR ULCERATION OF THE CORNEA. INGESTION: MAY CAUSE NAUSEA, VOMITING, & GASTROINTESTINA L IRRITATION. CHRONIC: INGESTION: MAY CAUSE DAMAGE TO THE LIVER, KIDNEYS, GASTROINTESTINAL SYSTEM, MUSCULOSKELETAL SYTEM, & NERVOUS SYSTEM.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS OF THIS PRODUCT(S) ARE CLASSIFIED AS POTENTIAL OR DEMONSTRATED CARCINOGENS BY IARC, NTP OR OSHA.

Effects of Overexposure:INHALATION: RESPIRATORY TRACT IRRITATION, FEVER, MUSCLE ACHE, CHILLS, COUGH, WEAKNESS, METALLIC TASTE. SKIN: MAY CAUSE IRRITATION, DISCOLORATION, &/OR CONTACT DERMATITIS. EYE: IRRITATION, CONJUNCTIVIT IS, &/OR ULCERATION OF THE CORNEA. INGESTION: MAY CAUSE NAUSEA, VOMITING, & GASTROINTESTINAL IR

RITATION.

Medical Cond Aggravated by Exposure:PRE-EXISTING PULMONARY DISEASES MAY BE AGGRAVATED BY INHALATION EXPOSURE, PARTICUCULARLY AS FUME. CHRONIC EXPOSURE MAY AGGRAVATE PRE-EXISTING DISEASES OF LIVER, KIDNEYS, GI TRACT, NERVOUS SYSTEM.

First Aid:INHALATION: IF SIGNS & SYMPTOMS OF TOXICITY ARE OBSERVED, REMOVE SUBJECT FROM AREA, ADMINISTER OXYGEN, & SEEK MEDICAL ATTENTION. KEEP THE SUBJECT WARM & AT R

EST. PERFORM ARTIFICIAL

RESPIRATION IF BREA THING HAS STOPPED. SKIN: REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ASSISTANCE IF NECESSARY. EYE: FLUSH AFFECTED AREA WITH WA TER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ASSISTANCE IF NECESSARY. INGESTION: IF SUBJECT IS CONSCIOUS, INDUCE VOMITING. IF UNCONSCIOUS OR CONVULSIVE, SEEK IMMEDIATE MEDICAL ASSISTANCE.

======= Fire Fighting Meas

Extinguishing Media:USE DRY CHEMICAL. DO NOT USE WATER. Fire Fighting Procedures:IF FIGHTING A FIRE IN WHICH THESE PRODUCTS ARE PRESENT, WEAR A SELF CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE MODE Unusual Fire/Explosion Hazard:IN FINELY-DIVIDED FORM, THESE PRODUCTS MAY IGNITE WHEN EXPOSED TO FLAME OR BY REACTION WITH INCOMPATABLE MATERIALS. IF PRESENT IN A FIRE OR EXPLOSION, THEY MAY EMIT FUMES

OF COPPER OXIDE & PHOSPHORUS PENTOXIDE.

Spill Release Procedures: IF A FINELY-DIVIDED FORM OF PRODUCT IS SPILLED, CLEAN UP SPILLAGE SO AS TO MINIMIZE DISPERSION OF DUST. WET SWEEPING OR VACUUMING USE HEPA FILTERATION ARE RECOMMENDED. Neutralizing Agent: NO DATA PROVIDED BY RESPONSIBLE PARTY.

Handling and Storage Precautions: DO NOT STORE IN PROXIMITLY TO

INCOMPATIBLE MATERIALS. Other Precautions:NO DATA PROVIDED BY RESPONSIBLE PARTY.

Respiratory Protection: IF EXPOSURE LEVEL EXCEEDS OSHA PEL(S) OR OTHER APPLICABLE STANDARD, USE A NIOSH-APPROVED RESPIRATOR HAVING A CONFIGURATION APPROPRATE TO THE CONCENTRATION OF THE CONTAMINANT(S) GENERATED. FOR GUIDEANC E ON SELECTION & USE OF RESPIRATORY PROTECTION, CONSULT AMERICAN NATIONAL STANDARD Z88.2 (ANSI, NEW

YOK, NY 10036 USA). Ventilation: USE APPROPRIATE VENTILATION ADEQUATE TO MAINTAIN CONCENTRATIONS OF ALL COMPONENTS & THEIR DECOMPOSITION BYPRODUCTS TO WITHIN THEIR RESPECTIVE OSHA PELS. Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES. Eye Protection: PLASTIC-FRAME SPECTACLES WITH SIDE SHIELDS & FILTER LENS (SHADE #3 OR #4) Other Protective Equipment: WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT SKIN INJURY. AVOID FLAMMABLE FABRICS. Work Hygienic Practices: TO AVOID INGESTIO N, WASH HANDS & FACE BEFORE EATING, DRINKING, OR USING COSMETICS OR TOBACCO. Supplemental Safety and Health NO DATA PROVIDED BY RESPONSIBLE PARTY. HCC:N1 Melt/Freeze Pt:=710.C, ######F Spec Gravity:8.01 TO 8.23 Solubility in Water: INSOLUBLE Appearance and Odor: ODORLESS COPPER-YELLOW METALS OF WIRE, ROD, STRIP, POWDER OR PREFORMED SHAPES Stability Indic ator/Materials to Avoid:YES AZIDES, NITRIC ACID, ETHANOL, ETHYLENE IMINE, MAGNESIUM, CHLORATES, CARBON DISULFIDE, BROMATES, INORGANIC & ORGANIC PEROXIDES, HALOGENS, CHLORINE TRIFLUORIDE, CHLORINE OXIDES, SELENIUM OXYCHLORIDE, SELEIUM OXYFLUORIDE, SELE Stability Condition to Avoid:STABLE AT ROOM TEMPERATURE COPPER CAN FORM AN UNSTABLE ACETYLIDE UPON CONTACT WITH ACETYLENE GAS. Hazardous Decomposition Products: HEATING TO ELEVATED TEMPERATURES MAY LIBERATE COPPER OXIDE & PHOSPHO RUS PENTOXIDE. Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION WILL NOT OCCUR Toxicological Information: NO DATA PROVIDED BY RESPONSIBLE PARTY. Ecological:NO DATA PROVIDED BY RESPONSIBLE PARTY. Waste Disposal Methods: DISPOSE OF UNSUED OR UNSTABLE PRODUCT IN

ACCORDANCE WI

TH APPLICABLE FEDERAL,	STATE/PROFINCIAL,	& LOCAL
REGULATIONS.		

Transport Information: SHIPMENT NOT CONTROLLED BY USDOT/IATA/ICAO/IMO.

SARA Title III Information:SARA 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-

TO-KNOW ACT (EPCR A) OF 1986 AND OF 40 CFR 372: CAS# 7440-50-8, COPPER, 91.05-95.0%; CAS# 7723-14-0, PHOSPHORUS, 5-8.95%.

Federal Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY. State Regulatory Information:NO DATA PROVIDED BY RESPONSIBLE PARTY.

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