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HEALTH & SAFETY INFORMATION SHEET

1) PRODUCT IDENTIFICATION

CHEMICAL NAME

BERYLLIUM COPPER

TRADE NAME

ZEMREX CB
COPPER BERYLLIUM
FINGER STRIPS

2) HEALTH HAZARD INFORMATION

INGESTION: THERE ARE NO KNOWN CASES OF ILLNESS RESULTING FROM INGESTION OF THESE ALLOYS. INGESTION CAN OCCUR FROM HAND, CLOTHING, FOOD, AND DRINK CONTACT WITH METAL DUST, FUME, OR POWDER DURING HAND TO MOUTH ACTIVITIES SUCH AS EATING, DRINKING, SMOKING, NAIL BITING, ETC. THESE PRODUCTS ARE NOT INTENDED FOR INTERNAL CONSUMPTION. AS A STANDARD HYGIENE PRACTICE, HANDS SHOULD BE WASHED BEFORE EATING OR SMOKING.

SKIN: SKIN CONTACT WITH THIS MATERIAL MAY CAUSE, IN SOME SENSITIVE INDIVIDUALS, AN ALLERGIC DERMAL RESPONSE IF ELEMENTS SUCH AS COBALT, COPPER AND NICKEL ARE PRESENT IN THE FORM OF METAL DUST OR POWDER. SKIN ABRASION MAY CAUSE IRRITATION. THE BERYLLIUM IN THIS ALLOY IS IN AN INSOLUBLE FORM AND DOES NOT POSE A POTENTIAL FOR AN ALLERGIC DERMAL RESPONSE.

EYES: INJURY TO THE EYES CAN RESULT FROM PARTICULATE IRRITATION OR MECHANICAL INJURY TO THE CORNEA OR CONJUNCTIVA BY DUST OR PARTICULATE. EXPOSURE MAY RESULT FROM DIRECT CONTACT WITH AIRBORNE PARTICULATE (CHIPS, DUST OR POWDER) OR CONTACT TO THE EYE OF CONTAMINATED HANDS OR CLOTHING.

3) EMERGENCY AND FIRST AID PROCEDURES

INHALATION: BREATHING DIFFICULTY CAUSED BY INHALATION OF DUST OR FUME REQUIRES IMMEDIATE REMOVAL TO FRESH AIR. ALTHOUGH NO CASES IN WHICH A PERSON STOPPED BREATHING AS A RESULT OF EXPOSURE ARE KNOWN, IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION AND OBTAIN MEDICAL HELP.

INGESTION: SWALLOWING METAL POWDER OR DUST CAN BE TREATED BY HAVING THE AFFECTED PERSON DRINK LARGE QUANTITIES OF WATER AND ATTEMPTING TO INDUCE VOMITING IF CONSCIOUS. OBTAIN MEDICAL HELP.

SKIN: SKIN CUTS AND ABRASIONS CAN BE TREATED BY STANDARD FIRST AID. SKIN CONTAMINATION WITH DUST OR POWDER CAN BE REMOVED BY WASHING WITH SOAP AND WATER. IF IRRITATION PERSISTS OBTAIN MEDICAL HELP. ACCIDENTAL IMPLANTATION OF THIS MATERIAL BENEATH THE SKIN REQUIRES IT TO BE REMOVED TO PREVENT INFECTION OR DEVELOPMENT OF A CORN-LIKE LESION.

EYES: DUST OR POWDER SHOULD BE FLUSHED FROM THE EYES WITH COPIOUS AMOUNTS OF CLEAN WATER. IF IRRITATION PERSISTS OBTAIN MEDICAL HELP. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH METAL DUSTS AND POWDERS BECAUSE THE CONTACT LENS MUST BE REMOVED TO PROVIDE ADEQUATE TREATMENT.

4) HANDLING PRECAUTIONS

PROTECTIVE GLOVES: WEAR GLOVES TO PREVENT METAL CUTS AND SKIN ABRASIONS PARTICULARLY DURING HANDLING.

EYE PROTECTION: WEAR SAFETY GLASSES, GOGGLES, FACE SHIELD, OR WELDERS HELMET WHEN RISK OF EYE INJURY IS PRESENT PARTICULARLY DURING MACHINING, GRINDING, ETC.

5) FIRE, EXPLOSION, AND REACTIVITY INFORMATION

FLASH POINT	NON-COMBUSTIBLE AS A SOLID. NO IGNITION AS LAYER OF SUB 44 MICRON PARTICLES OF NOMINAL 2% BeCu.
EXPLOSIVE LIMITS	NOT APPLICABLE TO SOLIDS. NO IGNITION AS CLOUD OF SUB 44 MICRON PARTICLES OF NOMINAL 2% BeCu.
EXTINGUISHING MEDIA	THESE ALLOYS ARE NON-COMBUSTIBLE. USE EXTINGUISHING MEDIA APPROPRIATE TO THE SURROUNDING FIRE. TO EXTINGUISH A METAL POWDER FIRE, USE CLASS D FIRE EXTINGUISHING POWDER.
UNUSUAL FIRE AND EXPLOSION HAZARDS	DO NOT USE WATER TO EXTINGUISH FIRES AROUND OPERATIONS INVOLVING MOLTEN METAL DUE TO THE POTENTIAL FOR STEAM EXPLOSIONS.

SPECIAL FIRE
FIGHTING PROCEDURES

IF THIS MATERIAL BECOMES AIRBORNE AS
A RESPIRABLE PARTICULATE DURING A
FIRE SITUATION, PRESSURE-DEMAND SELF
CONTAINED BREATHING APPARATUS MUST
BE WORN BY FIREFIGHTERS OR ANY OTHER
PERSONS POTENTIALLY EXPOSED TO THE
METAL FUMES.

GENERAL REACTIVITY

THESE ALLOYS ARE STABLE

INCOMPATIBILITY
(MATERIALS TO AVOID)

AVOID CONTACT WITH MINERAL ACIDS AND
OXIDIZING AGENTS WHICH MAY GENERATE
HYDROGEN GAS. HYDROGEN GAS CAN BE
AN EXPLOSION HAZARD.

HAZARDOUS
DECOMPOSITION
PRODUCTS

NONE UNDER NORMAL CONDITIONS OF USE

HAZARDOUS
POLYMERIZATION

WILL NOT OCCUR

6) NOTE

BERYLLIUM COPPER CONTAINS A PERCENTAGE OF NICKEL. IF ANY
MACHINING OR GRINDING OF THESE PARTS IS TO TAKE PLACE THEN
STANDARD PRECAUTIONS FOR DEALING WITH NICKEL DUST SHOULD BE
EMPLOYED.