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## **VITALLIUM 2/VITALLIUM, SPECIAL & VI-COMP**

### **MSDS Number**

BBLXS

### **National Stock Number**

6520-00F002885

### **Product Name**

VITALLIUM 2/VITALLIUM, SPECIAL & VI-COMP

### **Manufacturer**

AUSTENAL DENTAL INC

### **Product Identification**

Product ID:VITALLIUM 2/VITALLIUM, SPECIAL & VI-COMP

MSDS Date:01/29/1987

FSC:6520

NIIN:00F002885

MSDS Number: BBLXS

### **Responsible Party**

AUSTENAL DENTAL, INC

5101 SOUTH KEELER AVENUE

CHICAGO , IL 60632

Emergency Phone: (312) 735-0601

Info Phone: (800) 621-0176

Preparer: R. DUDEK

Cage: EO702

### **Contractor**

AUSTENAL DENTAL, INC

CHICAGO, IL 60632

(800) 621-0176

Cage: EO702

### **Ingredients**

COBALT SULFATE (FUME/DUST)

CAS: 10124-43-3

RTECS: GG3100000

OSHA PEL100 UG(CO)/CUM

CHROMIUM (SARA III)

CAS: 7440-47-3

RTECS: GB4200000

OSHA PEL1 MG/M3

ACGIH TLV: 0.5 MG/M3; 9192

EPA Report Quantity: 1 LB

DOT Report Quantity: 1 LB

MOLYBDENUM (INSOLUBLE)

CAS: 1439-98-7

OSHA PEL15 MG/CUM

ACGIH TLV: 10 MG/CUM

## Hazards

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:YES

Health Hazards Acute and Chronic:DUST & FUMES CONTAINING CHROMIUM, COBALT & OTHER ELEMENTS CAN BE TOXIC IF TLV GUIDLINE ARE EXCEEDED. CLINICAL STUDIES HAVE SHOWN THAT COBALT CHROMIUM ALLOYS IN SOLID FORMS ARE BIOCOMPATIBLE.

Explanation of Carcinogenicity:COBALT CHROMIUM ALLOYS & ELEMENTAL COMPONENTS OF ALLOYS WHEN IN THE FORM DUST/POWDERS & COMPOUNDS MAY BE CARCINOGENIC.

Effects of Overexposure:DUST & FUMES CONTAINING CHROMIUM, COBALT & OTHER ELEMENTS CAN BE TOXIC IF TLV GUIDLINES ARE EXCEEDED. CLINICAL STUDIES HAVE SHOWN THAT COBALT CHROMIUM ALLOYS IN SOLID FORMS ARE BIOCOMPATIBLE.

## First Aid

First Aid:INHALATION: REMOVE VICTIM TO FRESH AIR, BEGIN ARTIFICIAL RESPIRATION IF VICTIM IS NOT BREATHING. SKIN: WASH W/SOAP & WATER TO REMOVE METALLIC PARTICLES. INGESTION: SEEK MED ATTN. EYES: FLUSH W/WATER & SEEK MED ATTN.

## Fire Fighting

Extinguishing Media:SAND, DOLOMITE, GRAPHITE POWDER, & SODIUM CHLORIDE

Fire Fighting Procedures:NON-IGNITABLE. MODERATE FIRE & EXPLOSION HAZARD WHEN EXPOSED TO HEAT, FLAME, ELECTRIC CURRENT OR STATIC ELECTRICITY.

Unusual Fire/Explosion Hazard:NONE

## Accidental Release

Spill Release Procedures:SOLID FORMS: SWEEP UP & RETURN TO CONTAINER. DUST: WEAR PROTECTIVE CLOTHING. MINIMIZE AIRBORNE DUST. USE VACUUM OR WET SWEEPER TO ACCUMULATE.

## Handling

Handling and Storage Precautions:NO UNUSUAL HANDLING PRECAUTIONS.

EXTINGUISH SOURCES OF HEAT & FIRE WHEN HANDLING DUST & POWDERS.

Other Precautions:AVOID BREATHING ALLOY AIR BORNE DUST DURING CASTING AND GRINDING OPERATIONS. EYE PROTECTION SHOULD BE WORN WHILE GRINDLING. USE OF DUST COLLECTORS WILL MINIMIZE ACCUMULATION OF DUST. DON'T EAT, DRINK, OR SMOKE WHERE DUST/FUMES ARE LOCATED.

## Exposure Controls

Respiratory Protection:NO RESPIRATORS ARE NECESSARY IF TLV IS MAINTAINED. WEAR APPROPRIATE PROTECTIVE CLOTHING & EQUIPMENT WHEN CLEANING DUST COLLECTORS.

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION TO KEEP Protective Gloves:NONE

Eye Protection:SAFETY GLASSES, SAFETY GLASSES

Work Hygienic Practices:DON'T EAT, DRINK OR SMOKE IN AREAS WHERE DUST OR FUMES ARE GENERATED.

Supplemental Safety and Health

COBALT ALLOY & COBALT (ELEMENTAL) IS SUSPECTED TO BE AN ANIMAL CARCINOGEN. CHROMIUM IS AN INDEFINITE ANIMAL CARCINOGEN.

## Chemical Properties

Melt/Freeze Pt:M.P/F.P Text:1300-1370 C

Spec Gravity:8.3

Solubility in Water:INSOLUBLE

Appearance and Odor:GRAY COLOR WHEN SANDBLASTED & HAS A LUSTROUS APPEARANCE WHEN POLISHED. NO ODOR.

## Stability

Stability Indicator/Materials to Avoid: YES  
STRONG OXIDIZING AGENTS, CONCENTRATED NITRIC/CHROMIC ACIDS.  
Stability Condition to Avoid: HEAT, FIRE  
Hazardous Decomposition Products: NONE

## Disposal

Waste Disposal Methods: DON'T FLUSH INTO DRAINS OR WATERWAYS. ACCUMULATE  
& STORE IN A SEALED METAL OR PLASTIC DRUM. DISPOSE OF IN APPROVED  
LANDFILL SITE PER FEDERAL, STATE, & LOCAL EPA REGULATIONS.

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