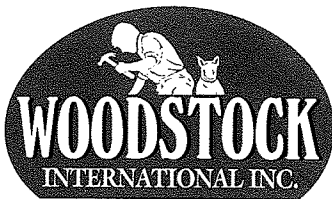


Woodstock International, Inc.
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WOODWORKING TOOLS AND ACCESSORIES

MATERIAL SAFETY DATA SHEET

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Emergency Phone: 1-800-840-8420
Phone: 1-800-840-8420

Last Revision Date: 9/27/04

Section I – Product Identification

PRODUCT NAME: Roman Carbide® Router Bits, Shaper Cutters & Rosette Cutters (see list of model #'s attached for reference).

Section II – Hazardous Ingredients / Identity Information

Cobalt in Carbide Tipped Router Bits, Shaper Cutters & Rosette Cutters: OSHA PEL ACGIH TLV
0.05mg/m3 0.02 mg/m3

Section III – Physical / Chemical Characteristics

BOILING POINT: 3200° C	SPECIFIC GRAVITY (H ₂ O = 1): 8.92
VAPOR PRESSURE: (mm Hg): Non-Volatile at room temp	MELTING POINT: 1493° C
VAPOR DENSITY (AIR = 1): Not Applicable	EVAPORATION RATE: Not Applicable
SOLUBILITY IN WATER: Insoluble	APPEARANCE AND ODOR: Odorless, silvery metal, black solid or finely divided particulates

Section IV – Fire & Explosion Hazard Data

FLASH POINT: Not Available
LEL: Not Available

FLAMMABLE LIMITS: Not Available
OEL: Not Available

EXTINGUISHING MEDIA: Do not use water. Dry sand, dolomite, or sodium chloride are recommended for fighting fires involving cobalt.

SPECIAL FIRE FIGHTING PROCEDURES: Isolate the hazard area. Firefighters should wear full protective clothing and self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: The National Fire Protection Association has not assigned flammability rating to cobalt metal.

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Section V – Reactivity Data

STABILITY: Unstable – No, Stable – Yes

CONDITIONS TO AVOID: No Conditions contributing to instability have been reported.

INCOMPATIBILITY (Material to Avoid): Contact between cobalt metal in powdered form and fused ammonium nitrate, or strong oxidizing agents should be avoided.

HAZARDOUS POLYMERIZATION: May Occur – NA, Will not occur – NA

CONDITIONS TO AVOID: Data not available.

Section VI – Health Hazard Data

ROUTES OF ENTRY: Inhalation? Yes
 Skin? Yes
 Ingestion? Yes

CARCINOGENICITY: Yes

HEALTH HAZARD (Acute and Chronic): Carbide dust contains cobalt. Sharpening and grinding carbide tipped router bits, shaper cutters and rosette cutters may release carbide dust into the work area. Chronic inhalation of cobalt particles may cause interstitial lung disease.

SIGNS AND SYMPTOMS OF EXPOSURE: Coughing, dyspnea, dermatitis, irritation of eyes, indigestion.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Asthma, dermatitis, and cumulative lung changes.

EMERGENCY AND FIRST AID PROCEDURES: If inhalation is suspected, consult a physician immediately.

Section VII – Precautions for Safe Handling and Use

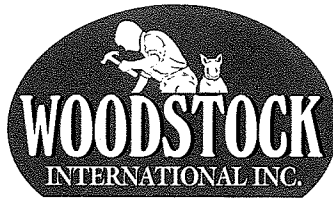
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Carbide dust may be released when sharpening or grinding carbide tipped router bits, shaper cutters and rosette cutters. A high efficiency particulate respirator must be worn when sharpening or grinding carbide tipped router bits, shaper cutters and rosette cutters.

WASTE DISPOSAL METHOD: Wet mop or vacuum the work area after grinding or sharpening carbide tipped router bits, shaper cutters and rosette cutters. Cautions should be used when dry sweeping the work area.

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING: None

OTHER PRECAUTIONS: None

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Section VIII – Control Measures

RESPIRATORY PROTECTION (Specify Type): High efficiency particulate respirator required when grinding or sharpening.

VENTILATION – LOCAL EXHAUST: Required when sharpening or grinding.

PROTECTIVE GLOVES: Required when sharpening or grinding.

EYE PROTECTION: Goggles required when sharpening or grinding.

WORK/HYGIENIC PRACTICES: Use caution to avoid inhalation of carbide dust when sharpening or grinding carbide tipped router bits, shaper cutters and rosette cutters. Eye goggles, gloves, proper ventilation, and a high efficiency particulate respirator should be worn when sharpening or grinding carbide tipped router bits, shaper cutters and rosette cutters.