

SOMMA TOOL CO., INC.

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MATERIAL SAFETY**DATA SHEET**

February 2007

**CARBIDE TIPPED
CUT-OFF BLADES****TRADE NAME AND SYNONYMS:** All Brazed Carbide Tools by Somma**CHEMICAL FAMILY:** Refractory Metal Carbide, Tool Steel,
Silver Solder**MOLECULAR WEIGHT:** N/A

PHYSICAL DATA

Appearance and Odor: Gray Metal Pieces Joined with Silver, No Odor
Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density (Air = 1): N/A
Solubility in Water: Insoluble
Specific Gravity (Water = 1): Steel 7.8-8.2, Carbide 11-15.5, Silver Solder 8.98
Percent Volatile by Volume: N/A
Evaporation Rate: N/A
How Best Monitored: Air Sample

HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	% by Weight	OSHA PEL (Mg/M ³)	ACGIH TLV (Mg/M ³)
*** (Aluminum)	7429-90-5	.01-1.4	5	5 (11)
Carbon	7440-44-0	.05-2.3	3.5	3.5
***Chromium	7740-47-3	.01-12.0	1	.5
Chromium Carbide	12012-35-0	0-.4	1.0	.5
***Cobalt	7440-48-4	.01-4.5	.05	.05
***Copper	7440-50-8	.74-1.65	(0.1)	(0.2)
Iron	7439-89-6	.35-43.5	10 (4)	5 (4)
***Manganese	7439-96-5	.25-2.3	5.0(1)	5.0 (1)
Molybdenum	7439-98-7	.01-9.1	10	10
***Nickel	7440-02-0	.02-3.7	1.0	1.0
Silicon	7740-21-3	.01-2.3	15 (10)	(10)
Silver	7440-22-4	.2 - .25	.01	.1
Tungsten	7440-33-7	5.5-8.0	5	5
***Vanadium	7440-62-2	.01-4.5	(.05)	(.05)
Zinc	7440-66-6	.14 - .18	1.0	1.0
Trace Elements	Less than 1%			

()'s Denotes as a dust or fume.

*** Signifies that this chemical is present in high enough concentrations to become subject to the reporting requirements of section 313 of the Emergency Planning and The Community Right-to-Know Act of 1986, 40 CFR 372.

HEALTH HAZARD DATA

WE DO NOT CONSIDER THIS PRODUCT IN THE FORM THAT IT IS SOLD TO CONSTITUTE A HEALTH HAZARD. SUBSEQUENT OPERATIONS SUCH AS GRINDING, CUTTING OR WELDING MAY PRODUCE POTENTIALLY HAZARDOUS DUST OR FUME. THIS FUME CAN BE INHALED, SWALLOWED, OR COME IN CONTACT WITH SKIN OR EYES.

Inhalation	—	Remove to fresh air, if condition continues consult physician.
Eye Contact	—	Flush well with running water to remove particulate. Get medical attention.
Skin Contact	—	Brush off excess dust. Wash area well with soap and water.
Ingestion	—	Seek medical help if large quantities of material have been ingested.

EFFECTS OF EXPOSURE: No toxic effects would be expected from exposure to this product in the solid form. Prolonged, repeated exposure to fumes or dust generated during grinding, cutting, welding or brazing may or may not cause adverse health effects associated with the listed constituents in excess is OSHA permissible exposure limits established in 29 CFR Subpart Z.

EXPOSURE LIMITS: Hazardous Ingredients section lists the specific ingredients and their permissible exposure limits. Actual exposure is best determined by industrial hygiene monitoring.

POSSIBLE SYMPTOMS OF EXPOSURE TO DUST OR FUME:

Short Term: Metallic taste, nausea, tightness of chest, fever; irritation of eyes, nose, throat, and skin.

LONG TERM EXPOSURE: There are no adverse effects from the products in their solid form. Adverse effects may or may not result from long-term exposure to dust, fumes, gases, etc. that occur by the way of subsequent operations on the product. Some studies would associate one or more of the constituents with the potential for neurological, pulmonary, respiratory, skin or other disease. Chromium, Cobalt, Nickel, in various chemical compounds have been identified as suspect human carcinogens by the I.A.R.C., N.T.P. Annual Report. We believe that there are no reliable scientific studies which show that workers exposed to operations upon our alloys suffer increased incidence of lung cancer or other disease because of their exposure to the forms of chromium, nickel, cobalt or other elements in our products.

AGGRAVATION OF PREEXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.
HMIS RATING: HEALTH 1, FLAMMABILITY 0, REACTIVITY 0.

REACTIVITY DATA

STABILITY:	Chemically Stable
INCOMPATIBILITY:	Reacts with Strong Acids to Generate Hydrogen Gas.
HAZARDOUS DECOMPOSITION PRODUCTS:	Metal Oxides

FIRE AND EXPLOSION DATA

Flash Point:	N/A
Flammable Limits:	N/A

Dusts may present a fire or explosion hazard under rare favoring conditions or particle size, dispersion, and strong ignition source. This is not expected to be a problem under normal use and handling.

EXTINGUISHING MEDIA: Use dry sand, dry dolomite, ABC type fire extinguisher, or flood with water.

SPECIAL FIRE FIGHTING PROCEDURES: For a small powder fire use a respirator approved for toxic dusts and fumes. For large fires, firefighters should use a self contained breathing apparatus.

SPILL OR LEAK PROCEDURES

Applies only to dusts generated from resharpening of tools. Ventilate area of spill. Clean up methods which avoid dust generation such as vacuuming (with a vacuum that has an approved filter), wet dust mop, or wet clean up. If airborne dust is generated use an appropriate NIOSH approved respirator.

WASTE DISPOSAL METHOD: May be sold as scrap for recycling or dispose of according to appropriate government regulations.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use an appropriate NIOSH approved respirator if airborne dust concentrations exceed the appropriate PEL or TLV. All appropriate requirements set forth in 29 CFR 1910.134 should be met.

VENTILATION: Use local exhaust ventilation which is adequate to limit personal exposure to airborne dust to levels which do not exceed the PEL or TLV. If such equipment is not available use respirators as specified above.

PROTECTIVE GLOVES: Protective Gloves or Barrier cream are recommended when contact with dust or mist is likely. Prior to applying the Barrier cream or use of protective gloves, wash thoroughly.

EYE PROTECTION: Safety glasses with side shields or goggles are recommended.

SPECIAL PRECAUTIONS:

PRECAUTIONS TO BE TAKEN IN HANDLING STORAGE: Maintain good housekeeping procedures to prevent dust accumulation during grinding. Avoid dust inhalation and direct skin contact with dust.

Wash hands thoroughly after handling, before eating or smoking. Wash exposed skin at the end of work shift. Do not shake clothing, rags or other items to remove dust. Dust should be removed by washing or vacuuming (with appropriate filters) the clothing, rags or other items.

Periodic medical examinations are recommended for individuals regularly exposed to dust or mist.

DISCLAIMER

Although Somma Tool Co., Inc. has attempted to provide current and accurate information herein, Somma Tool Co., Inc. makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person.

California Safe Drinking Water Act (Prop 65) listing:

CHEMICAL	CAS NUMBER
NICKEL	7440-02-0
COBALT	7440-48-4