# **MATERIAL SAFETY** DATA SHEET

# CALIFORNIA REAMER CO., INC.

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Issue Date: 2-19-08

PRODUCT IDENTIFICATION : CARBIDE REAMERS

Percent by Weight					
CAR	BIDE TIPPED,	SOLI	D CARBIDE,	SOLID HEAD	
CARBIDE :	1 - 10		100	70 - 30	
STEEL:	90 - 99		<del>-</del> .	70 - 30	
	HAZ	ARDOUS INGR	EDIENTS		
CARBIDE	Pe	Weight	OSHA PEI		
Tungsten Carbide (limits for Tun Cobalt	ngsten dust)	70-97%* 3-25%*	0.1 mg/m	5 mg/m 3 0.1 mg/m	
Depends on grade specifications		PHYSICAL D	1TA		
Appearance and Odor: Boiling Point: Vapor Pressure (mm Hg): Vapor Density (Air = 1): Solubility in Water:	Dark Gray Metai/No N/A N/A N/A Insoluble	Odor	Specific Gravity (H₂O = Percent Volatile by Volu Evaporation Rate: How Best Monitored:		
STEEL	% COM	OSITION BY WEIG	HT (1)	ACGIH TLV (mg/m³)	
Iron (Fe) Alloying Elements Nickel (Ni)		86-99	1	Iron Oxide)	
Caromium (Ĉr) Silicon (Si)		<b>&lt;5</b> <b>&lt;5</b>	,5 10 (To	tal Dust)	
Manganese (Mn) Carbon (C) Molybdenum (Mo	n (C) denum (Mo)		None E: .1.0 (In:	5 (As Dust-Ceiling) None Established 10 (Insoluble Compound)	
Yanadium (V) Aluminum (Al) Sulfur ( <u>S</u> )		<2 <2 <2	10 `	10 (Total Dust) 10 5 (As SO <sub>2</sub> )	
Phosphorus (P) Bismuth (Bi) Copper (Cu)		<1" <1 <1"	None E:	stablished stablished t & Mist)	
Leaded Alloy Lead (Pb)		<1	.05 (0	SHÁ Lead Std.)	
				٠.	
OF ALLOYING MATERIAL VARIES WITH		(2) 1985-1	966 ACGIH THRESHOLD LIMIT	VALUE.	
RIAL IS (AT NORMAL CONDITIONS)	Solid	APPEARA	Gray-B1	ack, Odorless	
NG POINT (BASE METAL)		SPECIFIC	GRAVITY		

#### REACTIVITY DATA

Stability:

Conditions to Avoid: N/A.

Unstable

Stable X

Incompatibility: Contact of dust with

strong oxidizers may cause fire

or explosions.

Hazardous Decomposition Products: None

Hazardous Polymerization:

May Occur

Will Not Occur

Materials to:Avoid: Strong.acids:

Conditions to Avoid: N/A

#### SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled: Ventilate area of spill. Clean up using methods which avoid dust generation such as vacuum (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet dust mop or wet cleanup. If airborne dust is generated, use an appropriate NIOSH approved respirator.

Waste Disposal Method: Dispose of in accordance with appropriate government regulations: May be sold as scrap for reclaim.

### 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.

Yentilation: 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.

Other Protective Equipment: N/A

### SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage: Maintain good housekeeping procedures to prevent dust accumulation during grinding. Avoid dust inhalation and cirect skin contact with dust.

Other Precautions: Clean up using methods which avoid dust generation such as vacuum (with appropriate filter to prevent airborne dust levels which exceed the PEL or TLV), wet dust mop or wet clean-up. If airborne dust is generated, use an appropriate NIOSH approved respirator.

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

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

Win welding, precautions should be taken for airborne contaminants which may originate of the welding rod.

Arc or spark generated when welding or burning could be a source of ignition for combustable and flammable materials.

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in case of questions please call:

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