

MATERIAL SAFETY DATA SHEET

15602

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

CHEMICAL NAME AND SYNONYMS Cobalt Oxide	TRADE NAME AND SYNONYMS Cobalt Oxide 70-71%
CHEMICAL FAMILY Inorganic Metallic Salt	FORMULA Co ₂ O ₃

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Not presently established, however TLV for cobalt metal, dust and fumes is 0.1 mg/m ³ as cobalt (1982 ACGIH)					

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N.A.	SPECIFIC GRAVITY (H ₂ O=1)	5.18
VAPOR PRESSURE (mm Hg.)	N.A.	PERCENT, VOLATILE BY VOLUME (%)	N.A.
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____ =1)	N.A.
SOLUBILITY IN WATER	Insoluble	Decomposes at	895°C
APPEARANCE AND ODOR	Black, gray powder		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N.A.	FLAMMABLE LIMITS	N.A.	Lel	Uel
EXTINGUISHING MEDIA	Water				
SPECIAL FIRE FIGHTING PROCEDURES	None				
UNUSUAL FIRE AND EXPLOSION HAZARDS	None				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not presently established, however TLV for cobalt metal, dust and fumes is 0.1 mg/m³ as cobalt. (1982 ACGIH)

PERCENTAGE OF OVER EXPOSURE
May cause local dermatitis which is relieved when removed. Toxicity due to ingestion is low.

EMERGENCY AND FIRST AID PROCEDURES
Ingestion-induce vomiting by giving two glasses of water and sticking finger down throat and call a Physician. Never give anything by mouth to an unconscious person. Inhalation-remove to fresh air-may give oxygen. Call a Physician

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
None expected			
HAZARDOUS DECOMPOSITION PRODUCTS			
None expected			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	
None expected			

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Contain the spill. Pick up the spill in a container for disposal. Flush area with water.

WASTE DISPOSAL METHOD
Dispose in accordance with Federal, State and Local laws.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

VENTILATION	LOCAL EXHAUST <input checked="" type="checkbox"/>	SPECIAL
	MECHANICAL (General) <input checked="" type="checkbox"/>	OTHER
PROTECTIVE GLOVES Rubber or impervious coating		EYE PROTECTION Goggles
OTHER PROTECTIVE EQUIPMENT If in dusty situation, wear an approved respirator.		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep container closed. Protect against physical damage. Avoid contact with skin, eyes, and clothing.

OTHER PRECAUTIONS

Avoid breathing and use only with adequate ventilation.

50221