

Material Safety Data Sheet

	SECTI	ON I - IDENTIFICATION	OF PRODUCT	
SUPPLIER'S NAME THE HALI	CHEMICAL COMPANY	EMERGENCY TELEPHONE NUMBER CHEMTREC: HALL CHEMICAL: 800/424-9300 216/944-8500		
	AKELAND BOULEVARD			
	FE, OH 44092-0200		TRADE NAMES AND SYNONYMS	
CHEMICAL NAME AND SYNOR Cobalt Sulfate Monk		Cobalt Sulfate Monohydrate		
HAZARDOUS MATERIAL DESC N/A	CRIPTION & PROPER SHIPPIN	G NAME (49CFR172.101)	HAZARD CLASS (49CFR 172.101) N/A	
CHEMICAL FAMILY Inorganic Metallic	Salt		FORMULA CoSO ₄ • H ₂ O	
DATE THIS FORM PREPARED September 1, 1990) PREPA	RED BY J. GANDHI	CAS NUMBER 10124-43-3	
	SECTI	ON II - HAZARDOUS ING	REDIENTS	
MATERIAL OR COMPONENT		OCCUPATION OSHA PEL	NAL EXPOSURE LIMITS ACGIH TWA (1989-90)	
Cobalt Sulfate Mono Contains approx. 3: Cobalt Sulfate Mono	7 Cobalt as	No specific PEL estab	No specific TLV established	
	SECTION	IIII - PHYSICAL DATA		
BOILING POINT (°F) Decomposes @1355°F	VAPOR PRES N/A	SURE (mm HG)	VAPOR DENSITY (AIR=1) N/A	
SOLUBILITY IN WATER 36 grams/100 grams	SPECIFIC G	RAVITY (WATER=1) m/cc @ 25 ⁰ C	% VOLATILE BY VOLUME N/A	
APPEARANCE AND ODOR Red or rose crysta	l, odorless		EVAPORATION RATE N/A	
	SECTI	ON IV - FIRE AND EXPL	OSTVE DATA	
FLASH POINT (METHOD US Non-flammable				
EXTINGUISHING MEDIA Dry chemical, CO2,	water spray			
SPECIAL FIRE FIGHTING Not a fire hazard,	PROCEDURES wear self-contained brea	ithing apparatus when	large quantities are involved.	
UNUSUAL FIRE AND EXPLOS None expected.	SION HAZARDS			
·		ON 17 11641 TH 11477	OATA	
OCCUPATIONAL EXPOSURE See Section II.		ON V - HEALTH HAZARD	UAIA	
EFFECT OF OVEREXPOSURE	ause irritation.	·	·· · · · · · · · · · · · · · · · · · ·	
Skin - May ca	ause local dermatitis whi	ich is relieved when r	emoved. May cause allergic dermatitis.	
	ause irritation to upper asthma.	respiratory tract. M	ay cause allergic response in some individua	
Ingestion - Toxic	ity due to ingestion is 1	low.		
EMERGENCY AND FIRST AIR	PROCEDURES - Irrigate with water	at least 15 minutes.	Consult physician.	
Skin contact	- Remove contaminated clothing. Wash skin thoroughly with soap and water. Consult physician.			
Inhalation	- Remove to fresh air.		, •	
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			SECTION VI - REACTIVITY DATA HCC-90-CO-17 REV. 3
STABILITY	UNSTA	BLE	CONDITIONS TO AVOID
	TE	– STABLE UNDER NORMA MPERATURE AND PRESSUR	·
	ITY (MAT	TERIALS TO AVOID)	
None exp HAZARD DECOM Toxic fu	POSITION		present during decomposition.
HAZARDOUS	•	MAY OCCUR	CONDITIONS TO AVOID N/A
POLYMERI	ZATION	WILL NOT OCCUR Not known to occ	ur.
			SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE	TAKEN IN	CASE MATERIAL IS REL	EASED OR SPILLED
Contain	the spil	 Pick up the spill 	in an approved container for disposal. Flush area with water.
WASTE DISPOS Dispose		odance with Federal, S	tate and Local laws.
			SECTION VIII - SPECIAL PROTECTION INFORMATION
		ON (SPECIFIC TYPE) ed respiratory protec	tion where airborne level exceeds appropriate occupational exposure limit
VENTILATION		LOCAL EXHAUST	X SPECIAL N/A
PROTECTIVE G	LOVES	MECHANICAL (GENERAL)	X OTHER Adequate to maintain below exposure limit.
		es to avoid skin cont	
OTHER PROTEC Wear pro			te to avoid skin contact.
			SECTION IX - SPECIAL PRECAUTIONS
		EN IN HANDLING AND ST Rosed. Protect again	ORING st physical damage. Avoid contact with skin, eyes and clothing.
	eathing	and use only with ade ed in work area.	quate ventilation. Wash thoroughly after handling. No food or beverage
is used. compound	pulmonar This e s of cob	y disease has been re ffect has not been re alt.	ported in workers in the cemented tungsten carbide industry where cobalt ported in workers refining or using cobalt metal, cobalt oxide and other
Toxicity	data	- Oral rat LDso 424 m	g/kg. Oral rabbi≄t LD. ∧ 1800 mg/kg

Toxicity data - Oral rat LD_{SO} 424 mg/kg, Oral rabbift LD_{LO} 1800 mg/kg LD_{SO} = Lowest Published Lethal Dose, that dose most likely to cause death of 50% of 50% of experimental animals. LD_{LO} = Lowest published dose.

ABOVE DATA REFERENCE - REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES 1981-82

This product contains the "COBALT COMPOUNDS" toxic chemical subject to the reporting requirements of Superfund Amendment and Reauthorization Act (SARA) of 1986, Section 313 of the Emergency Planning and Community Right to Know Act and of 40 CFR, Part 372.

This substance is listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

NFPA Hazard Ratings: HEALTH 1, FIRE 0, REACTIVITY 0

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Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable to the best of the knowledge and belief of The Hall Chemical Co., but is not guaranteed to be so. The Company makes no representations or warranties, express or implied. Customers are encouraged to conduct their own tests.