

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-100/10026-24-1.htm> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

10026-24-1

**Code:**

M

**RTECS:**

GG3200000

**Code:**

M

**Name:**

COBALT SULFATE

**Other REC Limits:**

NONE RECOMMENDED

**OSHA PEL:**

0.05 MG CO/M3

**Code:**

M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**

0.05 MG CO/M3

**Code:**

M N/P

**ACGIH STEL:**

EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem

**Code:**

1 ACGIH STEL:

## Control Measures

**Respiratory Protection:**

USE NIOSH/MSHA APPROVED RESP.EYE PROT REQUIRED.DUST/MIST RESP,SUPPLIED-AIR RESP,SCBA,POWERED AIR-PURIF RESP W/DUST/MIST FILT,AIR-PURIF FULL-FACEPC RESP W/HHEPF,SUPPLIED-AIR RESP W/FULL FACEPC OPERATED IN PRESS-DEMAND/+PRESS MODE,ETC.

**Ventilation:**

LOCAL EXHAUST REQUIRED TO MEET PERMISSIBLE EXPOSURE LIMITS (PEL).

**Protective Gloves:**

NITRILE, NEOPRENE, VINYL, LATEX GLOVES.

**Eye Protection:**

FACESHLD/SPLASHPROOF CHEM GOGG.

**Other Protective Equipment:**

Equipment DON'T WEAR CONTACT LENSES,IMPERV BOOTS,APRON,PROT CLOTH AS REQUIRE BY JOB CONDITIONS.EYEWASH STATEION,SAF SHOWER,WASHFAC

**Work Hygienic Practices:**

LAUNDER CONTAMIN CLOTH BEF REUSE.WASH THOROUGHLY AFT HNDLG.

**Supplemental Safety and Health:**

1STAI'D:GIVE FLUIDS REPEATEDLY.NEVER GIVE ANYTHIN BY MOUTH IF UNCONSC.IN ALL CASES CALL IMMED EMERG MED SERV/POIS CNTRL CNTR/HOSP/DR/OPHTHALMOLOGIST.TIME IS VITALLY IMPORTANT.REMOVE FRM CONTAMIN AREA T O CLEAN QUIET VENTI AREA.CALM/REASSURE VICTIM.

## Health Hazards Data

**LD50/LC50 Mixture:**

UNKNOWN

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

MAY CAUSE IRRIT EYES/SKIN/RESP TRACT.POSSIBLE CANCER/BIRTH DEFECTS HAZ.EYE:IRRIT,CORNEAL DMG POSSIBLE,SKIN:IRRIT,INFLAMM,DERM,INHAL:IRRIT RESP TRACT/LUNGS,INGEST:KIDNEY/LIVER DMG W/JAUNDICE,GI DMG,CHRONIC:EROSION OF TEETH,BRONCHIAL IRRIT,CHRONIC COUGH,BRONCHIAL PNEU,CHRONIC BRONCHITIS,GI DISTURBANCES,KIDNEY/LIVER DMG. 2

**Explanation Of Carcinogenicity:**

PER MSDS:CHEM LISTED AS CARCINOGEN/POT CARCINOGEN:NTP/IARC/OSHA/ACGIH:NO.

**Signs And Symptoms Of Overexposure:**

EYE:BURN SENS,WATERING,INFLAMM,CONJ,CORNEAL DMG,SKIN:INFLAMM,DERM,INHAL:SNEEZE,COUGH,CHOKE,HEAD,DIZZ,WEAK,TIGHTNESS IN CHEST,AIR HUNGER,INGEST:BURNING PAIN IN MOUTH/THROAT/STOMACH,ABUNDANT SALIVATION, PAIN IN SWALLOW,INTENSE THIRST,NAU,VOMIT,STOM/AB CRAMPS,WEAK/RAPID PULSE,SHOCK,INABLE TO URINATE,JAUN,AB LOW BLOOD PRESS

**Medical Cond Aggravated By Exposure:**

PRE-EXISTING RESP SYSTEM DISORDERS, PRE-SENSITIZATION TO COBALT, DERM, & OTHER SKIN DISORDERS. TARGET ORGANS:RESPIRATORY SYSTEM, SKIN, EYES, TEETH.

**First Aid:**

EYE:IMMED FLUSH W/PLENTY OF TEPID WATER FOR @LEAST 15MINS OPENING/MOVING EYES.SKIN:IMMED FLUSH W/PLENTY OF WATER FOR @LEAST 15MINS WHILE REMOVING CONTAMIN CLOTH/SHOES ASAP,INHAL:REMOVE TO FRESH AIR.LA Y VICTIM DOWN LEGS RAISED,LOOSEN TIGHT CLOTH.COVER W/BLANKET.NOT BREATH GIVE ART RESP,DIFF BREATH GIVE LOW PRESS OXY,INGEST:DO NOT INDUCE VOMIT,IMMED GIVE LG AMTS OF WATER ORMILK,VOMIT OCCURS (SUPPLE)

**Spill Release Procedures:**

NOTIFY FACILITY EMERG COORDINATOR.DO NOT RELEASE INTO SOIL/SEWER/STREAM/POND/DRINKING WATER SOURCES.PROVIDE MAX VENTI,ELIMINATE ALL IGN SOURCES.WEAR PPE.CAREFULLY MOP UP/VAC,TRIPLE RINSE WATER INTO SU ITABLE PLASTIC CNTNR,FLUSH AREA W/PLENTY OF WATER.

**Neutralizing Agent:**

SODIUM BICARBONATE, SODA ASH/SLAKED LIME.

**Waste Disposal Methods:**

SHIP TO APPROVED TREATMENT/DISPOSAL FACILITY.DISPPOSE OF ACCORDING TO LOC/STATE/FED REGS.EPA WASTE ID:D002,CERCLA,SARA TITLE 3 TPQ RQ:>100000L/25000GALS,EXT HAZ SUB:SULPHURIC ACID,CONTAINS TOXIC CHEM:C O BALT CMPDS AS CO 9% & SULFURIC ACID 5%.

**Handling And Storage Precautions:**

USE BUDDY SYS WHEN WORKING W/CHEM.DO NOT GET IN EYE/SKIN/CLOTH.DO NOT BREATH VAP/MIST/GAS.USE W/ADEQ VENTI,KEEP CNTNR TIGHTLY CLSD IN UPRIGHT POSITION

**Other Precautions:**

STORE @50-90F AWAY FRM INCOMPATIBLE MATLS,PROTECT CNTNRS AGAINST SPILLAGE/PHYSICAL DMG,DO NOT REMOVE/DEFACE CNTNR LABELS,TRIPLE RINSE CNTNR CLEAN BEF DISCARDING.PUT NOTHING ELSE IN THIS CNTNR.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:**

**Flash Point Text:**

NONE

**Autoignition Temp:**

**Autoignition Temp Text:**

N/K

**Lower Limits:**

NONE

**Upper Limits:**

NONE

**Extinguishing Media:**

ALL.

**Fire Fighting Procedures:** IMPERV GLOVES,BOOTS,PROT CLOTH,NIOSH/MSHA APPROVED RESP PROT AS REQUIRED.RUNOFF FRM FIRE CNTNR WATER MAY CAUSE POLLUTION.DIKE SPILL FOR DISPO 3

**Unusual Fire/Explosion Hazard:**

EXCESSIVE HEAT MAY CAUSE CONTAINERS TO BURST & GENERATE CORROSIVE VAPORS.CONTACT W/METALS MAY GENERATE FLAMMABLE HYDROGEN GAS.

## Physical/Chemical Properties

**HCC:**

**N/P State LC No.:**

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**Net Prop WT For Ammo:**

UNKNOWN

**Boiling Point:**

**Boiling Point Text:**

>212F,>100C

**Melt/Freeze Pt:**

**Melt/Freeze Pt Text:**

<32F,<0C

**Decomp Temp:**

**Decomp Temp Text:**

N/A

**Vapor Pres:**

**Vapor Pres Text:**

N/A

**Vapor Density:**

**Vapor Density Text:**

N/A

**Volatile Org Content %:**

**Volatile Org Content % Text:**

N/A

**Spec Gravity:**

**Spec Gravity Text:**

1.197-1.207

**VOC Pounds/Gallon:**

**VOC Pounds/Gallon Text:**

N/A

**PH:**

**PH Text:**

1-2

**VOC Grams/Liter:**

**VOC Grams/Liter Text:**

N/A

**Viscosity:**

**Viscosity Text:**

N/A

**Evaporation Rate & Reference:**

SLOWER THAN ETHYL ETHER

**Solubility in Water:**

**Solubility in Water Text:**

COMPLETE

**Appearance and Odor:**

RED LIQUID,NO ODOR.

**Percent Volatiles by Volume:**

**Percent Volatiles by Volume Text:**

N/A

**Corrosion Rate:**

**Corrosion Rate Text:**

N/K 4

## Reactivity Data

**Stability Indicator:**

YES

**Stability And Tox To Avoid:**

NOT APPLICABLE

**Materials To Avoid:**

METALS, STRONG BASES, STRONG OXIDIZERS, NITRATES, PEROXIDES, ORGANIC COMPOUNDS.

**Hazardous Decomposition Products:**

H2, SOX, COBALT.

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

NOT APPLICABLE

## Toxicological Information

**Information:**

N/P

## MSDS Transport Information

**Information:**