

FISHER SCIENTIFIC CO CHEMICAL DIV. -- COBALT NITRATE HEXAHYDRATE (C-378500) --
6810-00-081-3996

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===== Product Identification =====

Product ID:COBALT NITRATE HEXAHYDRATE (C-378500)

MSDS Date:05/29/1993

FSC:6810

NIIN:00-081-3996

MSDS Number: BMDLJ

=== Responsible Party ===

Company Name:FISHER SCIENTIFIC CO CHEMICAL DIV.

Address:1 REAGENT LANE

City:FAIR LAWN

State:NJ

ZIP:07410

Country:US

Info Phone N

um:201-796-7100

Emergency Phone Num:201-796-7100 OR 201-796-7523

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address:1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802

Country:US

Phone:201-796-7100

CAGE:1B464

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===== Composition/Information on Ingredients =====

Ingred Name:COBALT NITRATE

CAS:10141-05-6

RTECS #:GG1109000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED BY M.

OSHA PEL:0.1MG/M3 AS COBALT

ACGIH TLV:.05

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT) = 691 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE-EYE/SKIN:IRRITATION.

INHALATION:IRRITANT, SENSITIZER., INGESTION:TOXIC.

CHRONIC-DERMATITIS, CONJUNCTIVITIS, ASMA, PNEUMONITIS, RHINITIS,
TRACHEITIS, CARDIOMYOPATHY, EDMA, LIVER AND KIDNEY DAMAGE.

Effects o

f Overexposure:INHALATION:COUGHING, SNEEZING. INGESTION:

NAUSEA,VOMITING,DIARRHEA, MILD HYPOTENSION. SKIN/EYES:IRRITATION,
PAIN, REDNESS.

Medical Cond Aggravated by Exposure:DISEASES OF SKIN, LUNGS, LIVER ,
KIDNEY, EYES AND BLOOD.

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===== First Aid Measures =====
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First Aid:INHALATION:REMOVE TO FRESH AIR. GIVE CPR/ OXYGEN IF BREATHING
IS DIFFICULT. GET MED HELP. INGESTION:IMMEDIATELY INDUCE VOMITING.

NOTHING BY MOUTH IF UNCONSCIOUS. GET IM

MEDIATE MEDICAL HELP.

SKIN/EYES: FLUSH IMMED W/LARGE QTY OF WATER FOR 15MIN. REMOVE
CONTAMINATED CLOTHES. GET MEDICAL ATTENTION.

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===== Fire Fighting Measures =====
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Flash Point:NONE

Extinguishing Media:EXTINGUISH W. AGENT SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD BE EQUIPED WITH SELF-
CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:WILL DECOMPOSE AT HIGH TEMPERATURES TO
YIELD OXYGEN, WHICH WILL INC

REASE THE BURNING RATE OF COMBUSTIBLES.

MAY CAUSE VIOLENT COMBUSTION OR EXPLOSION.

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===== Accidental Release Measures =====
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Spill Release Procedures:KEEP COMBUSTIBLES AWAY. SHOVEL UP OR VACUUM UP
SPILL & PLACE IN A SUITABLE CONTAINER FOR RECLAMATION OR DISPOSAL.

WEAR ADEQUATE PROTECTIVE EQUIPMENT TO AVOID OVEREXPOSURE.

Neutralizing Agent:NONE

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===== Handling and Storage =====
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Handling and Storage Precautions:KEEP IN TIG

HTLY CLOSED CONTNRS AT

COOL, DRY, VENTILATED PLACE. PROTECT AGAINST PHY DAMAGE; SEPARATE FROM COMBUSTIBLES, ORGANIC OR OTHER READILY OXIDIZBLE

Other Precautions: AVOID BREATHING DUST. USE W/ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. AVOID SKIN, EYES & CLOTHING CONTACT.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection: USE MSHA/NIOSH APPROVED RESPIRATOR SUITABLE FOR DUST.

Ventilation: LOCAL EXHAUST TO MAINTN BELOW TLV.

Protectiv

e Gloves: IMPERVIOUS

Eye Protection: GOGGLES

Other Protective Equipment: FULL PROTECTIVE CLOTHING, SAFETY SHOWER, EYE WASH STATION

Work Hygienic Practices: DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH THIS PRODUCT.

Supplemental Safety and Health

DANGER! STRONG OXIDIZER. CONTACT W/OTHER MATL MAY CAUSE FIRE. HARMFULL IF SWALLOWED/INHALED. CAUSES IRRITATION/ SENSITIZATION.

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===== Physical/Chemical Properties =====

HCC: D1

Melt/Freeze Pt: M.P/F.P Text: 131F, 55C

Deco

mp Temp: Decomp Text: >165F, >74C

Spec Gravity: 1.87

Solubility in Water: COMPLETE (134%)

Appearance and Odor: RED DELIQUESCENT, MONOCLINIC CRYSTALS, ODORLESS

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

AMMONIUM HEXACYANOFERRATE (EXODE AT 220C), CARBON POWDER (POSSIBLE EXPLOSION), FLAMMABLES AND COMBUSTIBLES.

Stability Condition to Avoid: NOT KNOWN

Hazardous Decomposition Products: OXIDES OF NITROGEN AND COBALT WHEN HEATED TO DEC

COMPOSITION

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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