

COMAR CHEMICALS (Pty) Ltd

Reg. No. 1995/003437/7

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION : COBALT BIS (2-ETHYLHEXANOATE) IN D-60 NAPHTHA
SYNONYMS : Cobalt Octoate, Cobalt 2-ethyl hexanoate
PRODUCT TRADE NAME : COMCAT Co-8.4 E/D60
INTENDED USE : Catalyst
COMPANY IDENTIFICATION : COMAR Chemicals (Pty) Ltd
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SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components :

Component	CAS No.	EINECS No.	Concentration (% m/m)	Symbol, Risk Phrases
Cobalt bis (2-ethylhexanoate)	136-52-7	205-250-6	50	Xn, R22, R43
Solvent Naphtha (Petroleum), Medium Aliphatic	64742-88-7	N/A	50	R65

Composition comments : Cobalt Carboxylate of metal concentration 8.4 % m/m dissolved in Naphtha solvent

SECTION 3. HAZARD IDENTIFICATION

Classification : Xn , R22, R43, R65

- Harmful
- Harmful, may cause lung damage if swallowed
- May cause both dermal and respiratory sensitization.
- Irritating to the eyes and respiratory system

SECTION 4.

FIRST AID MEASURES

- **AFTER INHALATION**
Assistants must be equipped with breathing apparatus. In case of poisoning , the affected person must be removed out of the contaminated area and artificial respiration be applied. In case of breathing difficulties, the Patient must be kept calm, and medical assistance must be obtained.
- **AFTER SKIN CONTACT**
Remove clothing and wash affected areas thoroughly with water and soap.
- **AFTER EYE CONTACT**
Rinse thoroughly with water until irritation stops. If irritation continues, consult a Doctor.
- **AFTER INGESTION**
Keep affected person calm, and call a Doctor. Do not induce vomiting.

SECTION 5.

FIRE FIGHTING MEASURES

- **APPROPRIATE EXTINGUISHING MEDIA :**
Powder, Foam ,sand ,or CO₂
- **UNSAFE SUBSTANCES / METHODS OF EXTINGUISHING:**
Avoid direct water-jet
- **FIRE-FIGHTING INSTRUCTIONS :**
Wear self-contained breathing apparatus and standard protective equipment
- **HAZARD COMBUSTION PRODUCTS :**
Metal oxides and/or Carbon oxides may be released

SECTION 6.

ACCIDENTAL RELEASE MEASURES

- **PRECAUTIONARY SAFETY MEASURES :**
Remove sources of ignition. Ground containers. Ensure sufficient ventilation, or provide respiratory protection. Protect eyes and skin.
- **ENVIRONMENTAL MEASURES :**
Inform relevant local authorities. Inform inhabitants of areas that will be affected by possible fire / explosion.
- **CLEANING UP AND SPILLAGE REMOVAL :**
Do not allow ingress into ground or surface water, or drainage systems.
Fill into containers and dispose at toxic waste disposal sites.
Local regulations must be observed.

SECTION 7.

HANDLING AND STORAGE

- **SAFE HANDLING AND PRECAUTIONS :**
Do not smoke. Remove sources of ignition. Avoid contact with skin, eyes and clothing. Handle material in adequately ventilated areas. Ensure proper use of recommended safety apparel. Do not use compressed air or compressed oxygen for transfer of product. Partially used drums must be securely closed after use.
- **STORAGE :**
Store in a cool, dry and ventilated area. Keep away from incompatible materials such as oxidising agents. Ensure material is kept in a closed container. Keep away from ignition sources.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- **EXPOSURE LIMITS :**

Cobalt :

Dust and fumes of Cobalt :

Biological Exposure Index : ACGIH TLV : 0.02 mg/m³ (TWA)
End of shift : 15ug/l - urine
: 1 ug/l - blood
OSHA PEL : 0.1 mg/m³ (TWA)

Dept. Of Labour (South Africa) (Govt. Notice R1179) 1995
TWA OEL-RL : 0.1 mg/m³

Stoddard Solvent :

Biological Exposure Index: ACGIH : TWA : 100 ppm
OSHA Z1 2900 mg/m³ skin, 500 ppm

- **PERSONAL PROTECTIVE EQUIPMENT :**

- Inhalation : Approved Dust Respirator recommended.
 - Skin Contact : PVC/rubber gloves (impervious)
 - Eye Contact : Full-cover goggles recommended
- General Hygiene and Protective measures : Keep away from food. Wash hands thoroughly with water and soap before breaks and at the end of a work day. Provide separate storage of work clothes and private clothes.
- Do not allow material to be released into the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Colour	Blue /Violet
Odour	slight oil/alcohol smell
pH	not measurable
Boiling Point	>179 °C
Solidification temperature	<-20 °C
Flash Point	> 61 °C (as per ASTM D 93/PMCC)
Density	930 kg/m ³ (as per ASTM D 1298)

SOLVENT :

Boiling point/range	>179 °C
Vapour pressure	Typically 30 - 90 Pa at 0 deg.C
Solubility	soluble in organic solvents such as white spirits, xylol, alcohol, glycol

SECTION 10. STABILITY AND REACTIVITY

- **STABILITY :**
Material is stable under normal conditions.
- **CONDITIONS TO AVOID :**
Avoid areas of ignition sources or open flames
- **MATERIALS TO AVOID :**
Avoid strong oxidisers, inorganic acids, organic peroxides
- **HAZARDOUS DECOMPOSITION PRODUCTS :**
Metal oxides and carbon oxides. At pyrolysis temperatures in excess of 1000°C possible formation of Metal oxides, CO, CO₂, and vapours of acid decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

- **Cobalt** : LD50 (oral,rat) 6.17g/kg
 - IARC status : 2B - possible carcinogen
 - Exposure routes by inhalation or skin : May cause both dermal and respiratory sensitization.
 - No data is available for reproductive toxicity
- **Naphtha** Oral : LD50 (Rats) > 2000 mg/kg (practically non-toxic)
Inhalation : LC50 > near-saturated vapour conc./1hr, Rat (practically non-toxic)

SECTION 12. ECOLOGICAL INFORMATION

- **ECOTOXICITY :**
Toxicity to Fish : (Salmon) LC/EC50 : > 1000 mg/l
- **MOBILITY :**
Floats on water
- **PERSISTENCE AND DEGRADABILITY :**
No data available for Cobalt. Solvent is readily biodegradable

SECTION 13. DISPOSAL CONSIDERATIONS

- **REGULATORY DISPOSAL INFORMATION**
EUROPEAN WASTE CODE : 07 :Wastes from Organic Chemical Processes
- Municipal Council Directive **91/689/EEC** for Hazardous Waste
- **RESIDUAL WASTES AND EMPTY CONTAINERS :**
Disposal must be in accordance with local applicable laws and regulations.

SECTION 14.	TRANSPORT INFORMATION
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- **LAND & INLAND WATERWAYS (ADR/RID/ADNR)** :
This material is not classified as dangerous under ADR/RID/ADNR regulations

- **SEA (IMDG)** :
This material is not classified as dangerous under IMDG regulations

- **AIR (IATA)** :
This material is not classified as dangerous under IATA regulations

SECTION 15.	REGULATORY INFORMATION
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Material is Dangerous as defined by the EU Substance/Preparations Directive

CLASSIFICATION : Harmful, Irritant.

SYMBOL :



HARMFUL, IRRITANT

- **NATURE OF SPECIAL RISK :**
 - R22** - Harmful if swallowed
 - R43** - May cause sensitization by skin contact
 - R65** - Harmful, may cause lung damage if swallowed

- **SAFETY ADVISE :**
 - S24** - Avoid contact with skin
 - S28** - In case of skin contact, wash immediately with water and soap
 - S36/37** - Wear suitable protective gloves and overalls when handling product

- **CONTAINS :** Cobalt bis(2-ethylhexanoate) in Naphtha Solvent

- **REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS :**
As per local regulations

SECTION 16.

OTHER INFORMATION

- **KEY TO THE RISK PHRASES IN SECTION 2 AND 3 :**

- R22 - Harmful if swallowed
- R43 - May cause sensitization by skin contact
- R65 - Harmful, may cause lung damage if swallowed

- **REVISED INFORMATION :**

New MSDS

The information and recommendations contained herein are believed to be accurate and reliable at the time of issue. It is however the user's responsibility to satisfy itself that the product is suitable for the intended use. No warranties, either implied or expressed, shall be extended as to the accuracy or completeness of the information contained herein, and we assume no responsibility regarding the suitability of the information for the user's intended purposes or for the consequences of its use.