

SAFETY DATA SHEET

5562 COBALT OXIDE

1. Identification of substance/preparation and of the company undertaking

Trade Name: Cobalt Oxide Chemical Name: Cobalt Oxide

Synonyms: Cobalto-cobaltic oxide, but the product is really a mixture.

2. Composition /information on ingredients

Component	CAS	EINECS	% of composition
Cobalt oxide Co ₃ O ₄	1308-06-1	2151572	>95%
Cobalt oxide CoO	1307-96-6	2151546	<5%
Nickel Oxide NiO	113-99-1	2152157	< 0.9%

3. Hazards Identification

InhalationExcessive exposure may cause symptoms of chronic lung diseaseIngestionThe product is of low solubility in body fluids and it is likely to be of low

toxicity.

Eyes May cause physical irritation and inflammation.

Skin Some cobalt compounds have been shown to cause dermatitis and

sensitisation.

4. First Aid Measures

Inhalation Remove patient to fresh air, loosen tight clothing and seek medical attention.

IngestionDo not induce vomiting, seek medical attention.EyesWash immediately with copious amounts of water.

Skin Wash affected area with water.

5. Fire Fighting Hazards

Extinguishing media Suitable for surrounding fire conditions.

Special Exposure hazard In the event of a fire the product may emit harmful of toxic fumes.

Personal protective equipment Self contained breathing apparatus.



6. Accidental Release Measure

Leaks and Spills

Use suitable vacuum equipment where reasonably practicable,

otherwise damp down and scoop into a receptacle.

Personal protective equipment Respiratory protective equipment.

7. Handling & Storage

Handling Do not eat, drink or smoke in areas where the material is used.

Wash thoroughly after handling the material.

Storage Store in a dry area.

8. Exposure Control/Personal Protection

Engineering controls

Adequate ventilation should be provided so that Occupational

Exposure Limits are not exceeded. Local Exhaust Ventilation is

normally recommended.

Personal protective equipment Where LEV is not practicable and exposure is likely to be

excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and

overalls are recommended for prolonged contact.

9. Physical & Chemical Properties

Appearance and Odour Black powder, odourless

Flash Point (°C) Not applicable
Flammability Not applicable
Explosive Properties Non-explosive

Oxidising properties None Specific gravity 3-5

pH value 7 (insoluble in water)

Melting point (°C) Not available

10. Stability & Reactivity

Chemical stabilityThe material is stableConditions/ materials to avoidSoluble in acidsHazardous decomposition productsNone known

Hazardous polymerization products None



11. Toxicological Information

Acute toxicology	LD50	Oral	>2000mg/kg
	LD50	Dermal	Not known
	LD 50	Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure		pational Exposure
	Standards may cause aggravation of asthma, sensitisation, cancer, blood		
	disorders and damage to the heart, thyroid and pancreas.		

12. Ecological Information

Ecotoxicity	Not known
Persistence	Not known

13. Disposal Considerations

Dispose in accordance with current waste Disposal regulations (for UK-Control of Pollution {Special Waste} Regulations 1980). Landfill is the most appropriate method.

14. Transport Information

UN/SI No.		Not classified
UN Class		Not classified
Packing group		Not classified
Road	UK	Not classified
	ADR	Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified

15. Regulatory Information

EC Supply Labelling	Toxic			
R phrases	R20/22	Harmful by inhalation and if swallowed.		
	R43	May cause sens	sitisation by skin c	contact.
	R49	May cause can	cer by inhalation.	
S phrases	S24	Avoid contact with skin.		
	S36/37	Wear suitable p	rotective clothing	and gloves.
	S45	In case of accide medical advice	ent or if you feel u immediately.	inwell, seek
	S53	Avoid exposure before use.	– obtain special i	nstructions
UK Occupational exposures limits (Refer to HSE Guidance note EH40)		Mg/m³	8 hr TWA	% in product
Cobalt compounds (as Co)			0.10	70%



In accordance with HSE Approved Code of Practice for CHIP, the recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitutes the user's assessment of workplace risk.

16. Other Information

References	
COSHH ACOP	HSC approved Code of Practice for the Control of Substances Hazardous o Health Regulations 1994
CHIP 96	Chemicals (Hazardous Information and Packaging for Supply) Regulations 1996
CHIP SDS ACOPS	HSC Approved Code of Practice for Safety data Sheets in accordance with Regulation 6 of the CHIP regulations.
HSE EH40	HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSHH regulations.

