



PRODUCT NAME: COBALT SULPHATE
REVISION DATE: 16.08.2007

FORMER DATE: 16.08.2006

VERSION: 4.01-N

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:

PRODUCT NAME: COBALT SULPHATE

USE OF THE SUBSTANCE/PREPARATION:

Magnetic media; Animal feed;

COMPANY IDENTIFICATION:

OMG Kokkola Chemicals Oy
Outokummuntie 6, P. O. Box 286
FIN 67101 Kokkola
Telephone number: +358 (0)6 8280 111
Fax number: +358 (0)6 8281 260
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EMERGENCY TELEPHONE NUMBER:

OMG Kokkola Chemicals Oy +358 (0)6 8280 111
Finnish Poison Center +358 (0)9 4711

2. HAZARDS IDENTIFICATION

Carc. Cat. 2

Harmful

Dangerous for the environment.

Also harmful if swallowed.

May cause sensitization by inhalation and skin contact.

May cause cancer by inhalation.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

CHEMICAL NAME	PERCENT	CAS NO:	EINECS NO:	Warning symbol, R phrases and other information:
Cobalt sulphate heptahydrate	95-100	10026-24-1	233-334-2	Carc. Cat. 2; R49; Xn; R23; R47-43; N; R50-53

FURTHER INFORMATION:

Substance, inorganic salt



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4. FIRST AID MEASURES

EYE CONTACT:

Separate eyelids, wash the eyes thoroughly with water (15 min). If eye irritation persists, consult a specialist.

SKIN CONTACT:

Wash off with soap and plenty of water. Remove soiled or soaked clothing immediately. Wash contaminated clothing before re-use.

INHALATION:

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing no breathing: artificial respiration. Consult a physician.

INGESTION:

Rinse mouth. Consult a physician.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment e.g.: Dry powder; Carbon dioxide (CO₂); Water spray jet.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

None.

SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, ITS COMBUSTION PRODUCTS, OR RELEASED GASES:

In the event of fire the following can be released: Cobalt oxide dust; Cobalt sulphate dust; Sulphur oxides (SO_x);

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained breathing apparatus and protective suit.

FURTHER INFORMATION:

Collect contaminated fire extinguishing water separately. Neutralise with e.g. sodium hydroxide. Do not discharge into the drains, surface waters, groundwater.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Avoid dust formation. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS:

Avoid dust formation. Do not discharge into the drains, surface waters, groundwater.

METHODS FOR CLEANING UP:

Pick up mechanically. Send in suitable containers for recovery or disposal (Section 13).

7. HANDLING AND STORAGE

HANDLING:

Comand Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.



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SAFE HANDLING ADVICE:

Avoid contact with skin and eyes. Avoid dust formation. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

TECHNICAL MEASURES/PRECAUTIONS:

Provide good ventilation of working area (local exhaust ventilation if necessary).

STORAGE:

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances (SEVESO II directive)

TECHNICAL MEASURES/STORAGE CONDITIONS:

Always keep in containers of same material as the original one. Keep containers tightly closed in a dry, cool and well-ventilated place.

INCOMPATIBLE PRODUCTS:

None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	EXPOSURE LIMIT(S)	SOURCE:
Cobalt sulphate heptahydrate	Cobalt and cobalt compounds (as Co) TWA: 0.1 mg/m ³ Capable of respiratory sensitization	UK Workplace Exposure Limits

EXPOSURE CONTROLS:

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

OCCUPATIONAL EXPOSURE CONTROLS:

Avoid contact with skin and eyes. Do not breathe dust. Avoid repeated exposure. Wear suitable protective equipment. Hot/cold eye wash fountain available. Hot/cold emergency shower available. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work. At work do not eat, drink, smoke or take drugs. Keep away from food, drink and animal feeding stuffs. Keep working clothes separate.

RESPIRATORY PROTECTION:

Use a respirator with filter (model P3 (DIN 3182)).

HAND PROTECTION:

Protective gloves: Rubber; Butyl; Neoprene; PVC.

EYE PROTECTION:

Face shield; Safety glasses.

SKIN AND BODY PROTECTION:

Clothing as usual in the chemical industry.

ENVIRONMENTAL EXPOSURE CONTROLS:

The employer shall fulfil requirements of IPPC Directive.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION:

Appearance	Crystalline
Colour	Red Brown
Odour	Odourless

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IMPORTANT HEALTH SAFETY AND ENVIRONMENTAL INFORMATION:

pH	No data available
Boiling point/range	No data available
Flash point	No data available.
Flammability (solid, gas)	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.
Relative density	1.95 g/cm ³
Bulk density	No data available.
Vapour pressure	No data available.
Solubility	
-Water solubility	Soluble.
-Fat solubility	No data available.
Partition coefficient (n-octanol/water)	No data available.
Viscosity	No data available.
Vapour density	No data available.
Evaporation rate	No data available.

OTHER INFORMATION:

Melting point/range	No data available.
Moisture content	5%

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Avoid dust formation.

MATERIALS TO AVOID:

None known.

HAZARDOUS DECOMPOSITION PRODUCTS:

Sulphur oxides (SO_x); Cobalt oxides;

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

LD50 oral rat = 424 mg/kg

CORROSIVE EFFECTS:

No data available.

SENSITIZATION:

May cause sensitization by inhalation and skin contact.

SUBACUTE TOXICITY:

Carc. Cat. 2

May cause cancer by inhalation.

REPRODUCTIVE TOXICITY:

No data available.



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12. ECOLOGICAL INFORMATION

ECOTOXICITY:

AQUATIC TOXICITY:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

TOXICITY TO OTHER ORGANISMS:

No data available.

MOBILITY:

No data available.

PERSISTENCE / DEGRADABILITY:

Readily biodegradable. No

BIOACCUMULATIVE POTENTIAL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

13. DISPOSAL CONSIDERATIONS

Council Directive 91/689/EEC on hazardous waste.

EWV WASTE CODE: 06 03 14 - Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation (2000/537/EC).

WASTE FROM RESIDUES/UNUSED PRODUCTS:

Contact manufacturer. Dispose of as special waste in compliance with local and national regulations

CONTAMINATED PACKAGING:

Contaminated packaging should be emptied as far as possible. Packaging that cannot be cleaned should be disposed as special waste in compliance with local and national regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT ADR/RID:

Class	9
Classification code	M7
Packaging group	III
Hazard ID no.	90
Label	9
UN No.	3077
Technical name	Environmentally hazardous substance, solid, n.o.s.
Danger-releasing substance	Cobalt sulphate

MARINE TRANSPORT IMDG/CGV/See:

The product does not constitute a hazardous substance in sea transport.



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AIR TRANSPORT ICAO/ATA:

Class	9
Packaging group	III
UN-No	3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s.
Danger releasing substance	Cobalt sulphate
Label	9

15. REGULATORY INFORMATION

LABELLING IN ACCORDANCE WITH EC DIRECTIVES:

Labelling according to Directive 67/548/EEC and 1999/45/EC:

SYMBOL(S):

T - Toxic
N - Dangerous for the environment

HAZARDOUS COMPONENT(S) TO BE INDICATED ON LABEL:

Cobalt sulphate

R-PHRASE(S):

R22 - Also harmful if swallowed.
R42/43 - May cause sensitization by inhalation and skin contact.
R49 - May cause cancer by inhalation.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-PHRASE(S):

S22 - Do not breathe dust.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 - Avoid exposure - obtain special instructions before use.
S60 - This material and its container must be disposed of as hazardous waste.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

SPECIAL LABELLING FOR CERTAIN PREPARATIONS:

Restricted to professional users

SPECIAL REGULATIONS ON CERTAIN PREPARATIONS: Council Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations (substances classified as carcinogens, mutagens or substances toxic to reproduction - c/m/r)

NATIONAL REGULATIONS:

Cobalt and cobalt compounds are subject to the UK Chemical Hazards Information and Packaging (CHIP 3).

16. OTHER INFORMATION

LIST OF RELEVANT R-PHRASES:

R22 - Also harmful if swallowed.
R42/43 - May cause sensitization by inhalation and skin contact.
R49 - May cause cancer by inhalation
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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SOURCES OF KEY DATA USED TO COMPILE THE DATASHEET:

Finnish Environment Institute: Environmental properties of chemicals

Lewis, R. J. : Sax's Dangerous Properties of Industrial Materials

REVISED INFORMATION:

This data sheet contains changes from the previous version in section(s) 2; 3;

Reason for revision: REACH

PREPARED BY:

OMG Finland Oy

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