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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance
Trade name/designation : cobalt
Chemical name : cobalt
EC Index : 027-001-00-9
EC-No. : 231-158-0
CAS-No. : 7440-48-4
REACH registration No : 01-2119517392-44-0048

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Further information: see exposure scenarios attached to this safety data sheet.

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Trafigura Ventures V.B.V.
Evert van de Beekstraat 1-82
The Base, Tower B - 5th Floor
1118 CL Schiphol - The Netherlands
T +31 20 504 1800
TrafiguraReach@trafigura.com

1.4. Emergency telephone number

Emergency number : +32 3 575 03 30
This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Resp. Sens. 1 H334
Skin Sens. 1 H317
Aquatic Chronic 4 H413

Full text of H statements : see section 16

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word :

Danger

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements (CLP) :

P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective clothing, protective gloves.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P342+P311 - If experiencing respiratory symptoms: Call a doctor, a POISON CENTER.

Listed in Annex VI :

EC Index-No. : 027-001-00-9

2.3. Other hazards

Other hazards :

Results of PBT and vPvB assessment : This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances


Substance name : cobalt
CAS-No. : 7440-48-4
EC-No. : 231-158-0
EC Index : 027-001-00-9

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
cobalt	(CAS-No.) 7440-48-4 (EC-No.) 231-158-0 (EC Index) 027-001-00-9	100	Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 4, H413

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
Inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention.
Skin contact	: Take off contaminated clothing. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. Wash contaminated clothing before reuse.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. The following symptoms may occur: Cough. Sore throat. Shortness of breath.
Skin contact	: May cause an allergic skin reaction.
Eyes contact	: The following symptoms may occur: erythema (redness).
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry extinguishing powder. Carbon dioxide.
Unsuitable extinguishing media	: Water. Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Fire may cause evolution of: Dust formation (Co). May form explosive dust-air mixture. Hazardous decomposition products. Cobalt oxide.
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5.3. Advice for firefighters

Firefighting instructions	: Special protective equipment for firefighters. In case of fire: Wear self-contained breathing apparatus. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire-fighting to enter drains or water courses. Evacuate personnel to a safe area.
---------------------------	--

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel


For non-emergency personnel	: Evacuate personnel to a safe area. Stay upwind/keep distance from source. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid dust formation.
-----------------------------	---

6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.
--------------------------	---

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Dispose of waste product or used containers according to local regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe dust. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with combustibles... See also section 10. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains.

Hygiene measures : Keep good industrial hygiene. Wash hands immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Separate working clothes from town clothes. Take off contaminated clothing. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in a dry, cool and well-ventilated place. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Packaging materials : Keep only in the original container.


7.3. Specific end use(s)

Further information: see exposure scenarios attached to this safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters


cobalt (7440-48-4)		
Austria	TEL TRK (mg/m ³)	0,5 mg/m ³ (hardened metal-inhalable fraction) 0,1 mg/m ³ (all others-inhalable fraction)
Belgium	Limit value (mg/m ³)	0,02 mg/m ³ (dust and fume)
Bulgaria	OEL TWA (mg/m ³)	0,1 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,05 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,01 mg/m ³ (dust, fume and powder)
Estonia	OEL TWA (mg/m ³)	0,05 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0,02 mg/m ³
Greece	OEL TWA (mg/m ³)	0,1 mg/m ³ (dust and fume)
Hungary	AK-érték	0,1 mg/m ³
Hungary	CK-érték	0,4 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated)
Latvia	OEL TWA (mg/m ³)	0,5 mg/m ³
Lithuania	IPRV (mg/m ³)	0,05 mg/m ³
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,02 mg/m ³ (dust and smoke)

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cobalt (7440-48-4)		
Poland	NDS (mg/m ³)	0,02 mg/m ³
Portugal	OEL TWA (mg/m ³)	0,02 mg/m ³
Romania	OEL TWA (mg/m ³)	0,05 mg/m ³
Romania	OEL STEL (mg/m ³)	0,1 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	0,5 mg/m ³ (metal)
Slovakia	NPHV (Hraničná) (mg/m ³)	0,1 mg/m ³ (metal)
Slovenia	OEL TWA (mg/m ³)	0,5 mg/m ³ (inhalable fraction) 0,1 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³ (inhalable fraction) 0,4 mg/m ³ (other-inhalable fraction)
Spain	VLA-ED (mg/m ³)	0,02 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,02 mg/m ³ (inhalable dust)
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated)
Norway	Grenseverdier (AN) (mg/m ³)	0,02 mg/m ³ (fume)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,06 mg/m ³ (value calculated-fume)
Switzerland	MAK (mg/m ³)	0,05 mg/m ³ (aerosol and dust, inhalable dust)
Australia	TWA (mg/m ³)	0,05 mg/m ³ (dust and fume)
Canada (Quebec)	VEMP (mg/m ³)	0,02 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	0,02 mg/m ³
USA - IDLH	US IDLH (mg/m ³)	20 mg/m ³ (dust and fume)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	0,05 mg/m ³ (dust and fume)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	0,1 mg/m ³ (dust and fume)

8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. Safe handling: see section 7 .
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Impervious gloves. Suitable material: Neoprene. Butyl caoutchouc (butyl rubber). The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection. (EN166): Safety glasses. tightly fitting safety goggles. face shield. Dust protection eye glasses
Body protection	: Wear suitable protective clothing. Wear suitable coveralls to prevent exposure to the skin. Footwear (shoes, boots)
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). Half-face mask (DIN EN 140). Filter type: P (EN 143). Self-contained open-circuit compressed air breathing apparatus (EN 137). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Solid.
Colour	: Metallic.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: 1494 °C
Freezing point	: No data available
Initial boiling point and boiling range	: 2927 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 8,86 g/cm ³ (20°C)
Solubility	: Water: 2,94 mg/l (20°C)
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid


Heat. Avoid dust formation. Safe handling: see section 7.

10.5. Incompatible materials

oxidising substances. Acids. Safe handling: see section 7.

10.6. Hazardous decomposition products

Reference to other sections: 5.2.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

cobalt (7440-48-4)	
LD50/oral/rat	550 mg/kg OECD Guideline 425
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	50 mg/l OECD Guideline 436

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met.)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met.)

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met.)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met.)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met.)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met.)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met.)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met.)

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : May cause long lasting harmful effects to aquatic life.

cobalt (7440-48-4)	
LC50 fish 1	> 1,5 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic fish	351,4 µg/L Freshwater

12.2. Persistence and degradability

cobalt (7440-48-4)	
Persistence and degradability	Product/Substance is inorganic.

12.3. Bioaccumulative potential

cobalt (7440-48-4)	
BCF fish 1	(no bioaccumulation)

12.4. Mobility in soil


cobalt (7440-48-4)	
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Additional information : No data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not allow to enter into surface water or drains. Dispose of empty containers and wastes safely. Safe handling: see section 7. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.

Additional information : Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
NA	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
NA	Not applicable	Not applicable	Not applicable	Not applicable
Transport document description				
UN NA NA				
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
Not applicable				

14.6. Special precautions for user

Special precautions for user : Not applicable

- Overland transport

No data available

- Transport by sea

No data available

- Air transport


No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	cobalt
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	cobalt
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	cobalt

cobalt is not on the REACH Candidate List

cobalt is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, low hazard to waters (ID No. 8026)
 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed
 SZW-lijst van mutagene stoffen : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
 NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product


15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

1		Modified	
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2		Modified	
9		Modified	
15		Modified	
16		Modified	

Abbreviations and acronyms:


	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : CSR.
datasheet

Full text of H- and EUH-statements:

Aquatic Chronic 4	Hazardous to the aquatic environment - chronic hazard category 4
Resp. Sens. 1	Sensitisation - Respirat., Hazard Category 1
Skin Sens. 1	Skin sensitisation, hazard category 1
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H413	May cause long lasting harmful effects to aquatic life.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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