

according to Regulation (EC) No. 1907/2006

Creation Date 22-Sep-2009 Revision Date 24-Mar-2024 Revision Number 2

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Description: Cobalt granules

 Cat No. :
 U00478

 Index No
 027-001-00-9

 CAS No
 7440-48-4

 EC No
 231-158-0

 Molecular Formula
 Co

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

#### 1.3. Details of the supplier of the safety data sheet

Company

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

**Swiss distributor -** Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

**E-mail address** begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

#### Cobalt granules Revision Date 24-Mar-2024

### **Physical hazards**

Based on available data, the classification criteria are not met

#### **Health hazards**

Acute oral toxicity Category 4 (H302)

Respiratory Sensitization Category 1 Sub-category 1B (H334)

Skin Sensitization Category 1 (H317)
Germ Cell Mutagenicity Category 2 (H341)
Carcinogenicity Category 1B (H350i)

Carcinogenicity Category 1B (H350i)
Reproductive Toxicity Category 1B (H360F)

**Environmental hazards** 

Chronic aquatic toxicity Category 3 (H412)

Full text of Hazard Statements: see section 16

#### 2.2. Label elements



## Signal Word

## Danger

#### **Hazard Statements**

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H341 - Suspected of causing genetic defects

H350i - May cause cancer by inhalation

H360F - May damage fertility

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary Statements**

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P312 - Call a POISON CENTER or doctor if you feel unwell

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P284 - Wear respiratory protection

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### Additional EU labelling

Restricted to professional users

#### 2.3. Other hazards

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment

Cobalt granules Revision Date 24-Mar-2024

This product does not contain any known or suspected endocrine disruptors

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Cobalt, massive	7440-48-4	EEC No. 231-158-0	<=100	Acute Tox. 4 (H302)
				Resp. Sens. 1B (H334)
				Skin Sens. 1 (H317)
				Muta.2 (H341)
				Repr. 1B (H360F)
				Carc. 1B (H350i)
				Aquatic Chronic 3 (H412)

Full text of Hazard Statements: see section 16

## **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

General Advice If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

None reasonably foreseeable. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

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

Notes to Physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

#### Cobalt granules Revision Date 24-Mar-2024

#### **Suitable Extinguishing Media**

approved class D extinguishers.

## Extinguishing media which must not be used for safety reasons

Water may be ineffective.

#### 5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Cobalt oxides.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. No special precautions required.

#### 6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

#### 6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Pick up and transfer to properly labelled containers.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

## **SECTION 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

Ensure adequate ventilation. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep away from acids.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Storage Class/LGK 6.1D

Cobalt granules Revision Date 24-Mar-2024

Switzerland - Storage of hazardous substances

Storage class - SC 6.1

https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

## 7.3. Specific end use(s)

Use in laboratories

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### 8.1. Control parameters

#### **Exposure limits**

List source(s): **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

Component	European Union	The United Kingdom	France	Belgium	Spain
Cobalt, massive		STEL: 0.3 mg/m <sup>3</sup> 15 min		TWA: 0.02 mg/m <sup>3</sup> 8	TWA / VLA-ED: 0.02
	TWA: 0.1 mg/m <sup>3</sup> 8 hr			uren	mg/m³ (8 horas)
		Resp. Sens.			

Component	Italy	Germany	Portugal	The Netherlands	Finland
Cobalt, massive		Haut	TWA: 0.02 mg/m <sup>3</sup> 8	TWA: 0.02 mg/m <sup>3</sup> 8	TWA: 0.02 mg/m <sup>3</sup> 8
			horas	uren	tunteina

Component	Austria	Denmark	Switzerland	Poland	Norway
Cobalt, massive	TRK-KZGW: 2 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup> 8	Haut/Peau	TWA: 0.02 mg/m <sup>3</sup> 8	TWA: 0.02 mg/m <sup>3</sup> 8
	15 Minuten	timer	TWA: 0.05 mg/m <sup>3</sup> 8	godzinach	timer
	TRK-KZGW: 0.4 mg/m <sup>3</sup>	STEL: 0.02 mg/m <sup>3</sup> 15	Stunden	_	STEL: 0.06 mg/m <sup>3</sup> 15
	15 Minuten	minutter			minutter. value
	Haut				calculated fume
	TRK-TMW: 0.5 mg/m <sup>3</sup>				
	TRK-TMW: 0.1 mg/m <sup>3</sup>				

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Cobalt, massive	TWA: 0.1 mg/m <sup>3</sup>	TWA-GVI: 0.1 mg/m <sup>3</sup> 8	TWA: 0.02 mg/m <sup>3</sup> 8 hr.		TWA: 0.05 mg/m <sup>3</sup> 8
	_	satima.	STEL: 0.3 mg/m <sup>3</sup> 15 min		hodinách. inhalable
			-		fraction of aerosol
					Ceiling: 0.1 mg/m <sup>3</sup>

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Cobalt, massive	TWA: 0.05 mg/m <sup>3</sup> 8		TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> 8	TWA: 0.02 mg/m <sup>3</sup> 8
	tundides.		_	órában. AK	klukkustundum. dust
					and fume
					Ceiling: 0.04 mg/m <sup>3</sup>
					dust and fume

	Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Ī	Cobalt, massive	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup> IPRD			TWA: 0.05 mg/m <sup>3</sup> 8 ore
-		-	_			STEL: 0.1 mg/m <sup>3</sup> 15
Į						minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Cobalt, massive	TWA: 0.01 mg/m <sup>3</sup> 1108	TWA: 0.05 mg/m <sup>3</sup>		TLV: 0.02 mg/m <sup>3</sup> 8	
	Skin notation	_		timmar. NGV	
	MAC: 0.05 mg/m <sup>3</sup>			Hud	

## **Biological limit values**

List source(s):

#### Cobalt granules

Revision Date 24-Mar-2024

Component	European Union	United Kingdom	France	Spain	Germany
Cobalt, massive			Cobalt: 0.001 mg/L	Cobalt: 15 µg/L urine	
			blood end of shift at end	end of workweek	
			of workweek	Cobalt: 1 µg/L blood	
			Cobalt: 0.015 mg/L	end of workweek	
			urine end of shift at end		
			of workweek		

Component	Italy	Finland	Denmark	Bulgaria	Romania
Cobalt, massive		Cobalt: 130 nmol/L urine			Cobalt: 15 µg/L urine
		after the work phase or		end of work week	
		shift after a working			Cobalt: 1 µg/L blood end
		week or exposure	week or exposure		of work week
		period.			

Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Cobalt, massive			Cobalt: 30 µg/L urine		
			not critical		

## **Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS30/2 Cobalt and cobalt compounds in air Laboratory method using flame atomic absorption spectrometry

## Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Cobalt, massive 7440-48-4 ( <=100 )			DNEL = 40µg/m³	

#### **Predicted No Effect Concentration (PNEC)**

See values below.

Ī	Component	Fresh water	Fresh water	<b>Water Intermittent</b>	Microorganisms in	Soil (Agriculture)
L			sediment		sewage treatment	
Γ	Cobalt, massive	PNEC = 0.62µg/L	PNEC = 53.8 mg/kg		PNEC = 0.37mg/L	PNEC = 10.9mg/kg
L	7440-48-4 ( <=100 )		sediment dw			soil dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Cobalt, massive 7440-48-4 ( <=100 )	PNEC = 2.36μg/L	PNEC = 69.8mg/kg sediment dw			

#### 8.2. Exposure controls

## **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. None under normal use conditions.

## Personal protective equipment

**Eye Protection** 

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Cobalt granules Revision Date 24-Mar-2024

**Hand Protection** No special protective equipment required

Breakthrough time Glove thickness **EU** standard Glove comments Glove material Disposable gloves See manufacturers EN 374 (minimum requirement) recommendations

Long sleeved clothing. Skin and body protection

**Respiratory Protection** No special protective equipment required.

Large scale/emergency use In case of insufficient ventilation, wear suitable respiratory equipment

No personal respiratory protective equipment normally required Small scale/Laboratory use

When RPE is used a face piece Fit Test should be conducted

Solid

Prevent product from entering drains. **Environmental exposure controls** 

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

**Physical State** Solid

Grev **Appearance** Odor Odorless

No data available **Odor Threshold** Melting Point/Range 1495 °C / 2723 °F **Softening Point** No data available 2870 °C / 5198 °F **Boiling Point/Range** 

Flammability (liquid) Not applicable

Flammability (solid,gas) No information available

**Explosion Limits** No data available

Not applicable Flash Point Method - No information available

No data available **Autoignition Temperature Decomposition Temperature** No data available

pН No information available 4444

**Viscosity** Not applicable Solid

Water Solubility Insoluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow

Cobalt, massive

**Vapor Pressure** No information available

**Density / Specific Gravity** 8.92

**Bulk Density** No data available **Vapor Density** Not applicable

Solid **Particle characteristics** No data available

9.2. Other information

**Molecular Formula** Co **Molecular Weight** 58.9332

Not applicable - Solid **Evaporation Rate** 

## **SECTION 10: STABILITY AND REACTIVITY**

Cobalt granules Revision Date 24-Mar-2024

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization No information available.
Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Cobalt oxides.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Product Information**

(a) acute toxicity;

OralCategory 4DermalNo data availableInhalationNo data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cobalt, massive	6171 mg/kg (Rat)	-	LC50 < 0.05 mg/L (Rat) 4 h
	550 mg/kg (Rat)		, , ,

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

**Respiratory** Sub Category 1B **Skin** Category 1

No information available

(e) germ cell mutagenicity; Category 2

(f) carcinogenicity; No data available

This product contains one or more substances which are classified by IARC as

carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B) The table below indicates whether each agency has

listed any ingredient as a carcinogen

Component	EU	UK	Germany	IARC
Cobalt, massive	Carc Cat. 1B		Cat. 2	Group 2A

Cobalt granules Revision Date 24-Mar-2024

(g) reproductive toxicity; Category 1B

**Reproductive Effects** Product is or contains a chemical which is a known or suspected reproductive hazard.

(h) STOT-single exposure: No data available

(i) STOT-repeated exposure: No data available

None known. **Target Organs** 

Not applicable (j) aspiration hazard;

Solid

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

#### 11.2. Information on other hazards

**Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

## **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity effects** May cause long-term adverse effects in the environment. Do not allow material to

contaminate ground water system. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances

which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae
Cobalt, massive	LC50: > 100 mg/L, 96h static (Brachydanio rerio)		

12.2. Persistence and degradability Product contains heavy metals. Discharge into the environment must be avoided. Special

pre-treatment is necessary

**Persistence** May persist.

Not relevant for inorganic substances. Degradability

Degradation in sewage Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants. treatment plant

12.3. Bioaccumulative potential Product has a high potential to bioconcentrate

Component	log Pow	Bioconcentration factor (BCF)
Cobalt, massive	5	No data available

Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water 12.4. Mobility in soil

solubility. Is not likely mobile in the environment due its low water solubility and propensity

to bind to soil particles

12.5. Results of PBT and vPvB In accordance with Annex XIII of the REACH Regulation, inorganic substances do not

Cobalt granules Revision Date 24-Mar-2024

**assessment** require assessment.

12.6. Endocrine disrupting

properties

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects
Persistent Organic Pollutant
Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

## **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives

on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC) According to the European Waste Catalog, Waste Codes are not product specific, but

application specific.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used. Do not empty into drains. Do not flush to sewer. Do not let this chemical enter

the environment.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

## **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

<u>IATA</u> Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards No hazards identified

Cobalt granules Revision Date 24-Mar-2024

14.6. Special precautions for user

No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

## **SECTION 15: REGULATORY INFORMATION**

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

#### **International Inventories**

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

	07.00.10					;		i	
Cobalt, massive	7440-48-4	231-158-0	-	ı	Х	X	KE-06060	X	-
Component	CAS No	TSCA	TSCA In		DSL	NDSL	AICS	NZIoC	PICCS

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Cobalt, massive	7440-48-4	X	ACTIVE	X	İ	X	Х	Х

Legend: X - Listed '-' - Not Listed

Component

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

EINECS ELINCS NLP IECSC TCSI KECL ENCS

#### Authorisation/Restrictions according to EU REACH

CAS No

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions	REACH Regulation (EC 1907/2006) article 59 - Candidate List of
		Subject to Authorization	on Certain Dangerous Substances	Substances of Very High
			Oubstances	Concern (SVHC)
Cobalt, massive	7440-48-4	-	Use restricted. See item	-
			30.	
			(see link for restriction	
			details)	
			Use restricted. See item	
			28.	
			(see link for restriction	
			details)	
			Use restricted. See item	
			75.	
			(see link for restriction	
			details)	

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

#### Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -
		Qualifying Quantities for Major Accident	Qualifying Quantities for Safety Report
		Notification	Requirements
Cobalt, massive	7440-48-4	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

ALFAAU00478

ISHI

Cobalt granules Revision Date 24-Mar-2024

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

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work

#### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification See table for values

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Cobalt, massive	WGK 3	Class II: 0.5 mg/m³ (Massenkonzentration)
		Krebserzeugende Stoffe - Class I: 0.05 mg/m <sup>3</sup>
		(Massenkonzentration)

Component	France - INRS (Tables of occupational diseases)
Cobalt, massive	Tableaux des maladies professionnelles (TMP) - RG 65,RG 70,RG 70bis,RG 70ter

## **Swiss Regulations**

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

## **SECTION 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H350i - May cause cancer by inhalation

H360F - May damage fertility

H412 - Harmful to aquatic life with long lasting effects

#### Legend

**CAS** - Chemical Abstracts Service

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances

Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

**DNEL** - Derived No Effect Level **RPE** - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%
NOEC - No Observed Effect Concentration

**PBT** - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

**EC50** - Effective Concentration 50% **POW** - Partition coefficient Octanol:Water **vPvB** - very Persistent, very Bioaccumulative

Cobalt granules Revision Date 24-Mar-2024

Ships

Transport Association

ATE - Acute Toxicity Estimate

VOC - (volatile organic compound)

ICAO/IATA - International Civil Aviation Organization/International Air

MARPOL - International Convention for the Prevention of Pollution from

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

Dangerous Goods Code

**OECD** - Organisation for Economic Co-operation and Development

**BCF** - Bioconcentration factor

Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Prepared By Health, Safety and Environmental Department

Creation Date 22-Sep-2009
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**Revision Summary** New emergency telephone response service provider.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No. 1907/2006

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2, Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

#### **Disclaimer**

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**End of Safety Data Sheet**