



Cobalt Oxide Solid Formulation

Version 1.5	Revision Date: 09/28/2024	SDS Number: 11093963-00006	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022	
SECTION	1. IDENTIFICATION			

Product name Other means of identification	-	Cobalt Oxide Solid Formulation Coopers Permatrace 3 Year Cobalt Pellets for Sheep (47611) Coopers Permatrace Cobalt Pellets for Cattle (47638)
Manufacturer or supplier's o	leta	ails
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com
Recommended use of the cl	hen	nical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Respiratory sensitization	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H334 May cause allergy or asthma symptoms or breathing diffi- culties if inhaled.
Precautionary Statements	:	Prevention: P261 Avoid breathing dust, fume, gas, mist, vapors or spray. P285 In case of inadequate ventilation wear respiratory protec- tion.
		Response: P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a doctor.

according to the OSHA Hazard Communication Standard



Cobalt Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
1.5	09/28/2024	11093963-00006	Date of first issue: 11/23/2022

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Tricobalt tetraoxide	1308-06-1	30

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention. Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur.
Most important symptoms and effects, both acute and delayed	:	Rinse mouth thoroughly with water. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome). Contact with dust can cause mechanical irritation or drying of
Protection of first-aiders	:	the skin. Dust contact with the eyes can lead to mechanical irritation. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical

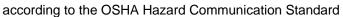


according to the OSHA Hazard Communication Standard

Cobalt Oxide Solid Formulation

Vers 1.5	sion	Revision Date: 09/28/2024		9S Number: 093963-00006	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022
	Unsuita media	ble extinguishing	:	None known.	
	Specific fighting	c hazards during fire	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Metal oxides	
	ods cumstances Use water s Remove und so.			cumstances and t Use water spray to Remove undamage	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	CTION 6	ACCIDENTAL RELE	ASE	EMEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Enviror	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
		ls and materials for ment and cleaning up	:	over the area to m Add excess liquid Soak up with inert Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Clean up remainin absorbent. Local or national n disposal of this ma employed in the c determine which n Sections 13 and 1	n absorbents and place a damp covering ninimize entry of the material into the air. to allow the material to enter into solution. absorbent material. dust in the air (i.e., clearing dust surfaces air). uld not be allowed to accumulate on a may form an explosive mixture if they are atmosphere in sufficient concentration. In materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE





Cobalt Oxide Solid Formulation

Version 1.5	Revision Date: 09/28/2024	SDS Number: 11093963-0000	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022
Tecl	nnical measures	causing an Provide ade	icity may accumulate and ignite suspended dust explosion. equate precautions, such as electrical grounding g, or inert atmospheres.
	al/Total ventilation ice on safe handling	 Use only wi Avoid breat Do not brea Do not swa Avoid conta Avoid prolo Handle in a practice, ba assessmen Keep conta Already ser to asthma, s should cons respiratory Minimize du Keep conta Keep away Take preca Take care t 	th adequate ventilation. hing dust, fume, gas, mist, vapors or spray. the dust. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. low. l
Con	ditions for safe storage	Keep tightly	perly labeled containers.
Mate	erials to avoid	: Do not store	e with the following product types: izing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Tricobalt tetraoxide	1308-06-1	TWA (Inhal- able particu- late matter)	0.02 mg/m ³ (Cobalt)	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Tricobalt tetraoxide	1308-06-1	Cobalt (Cobalt)	Urine	End of shift at end of work- week	15 μg/l	ACGIH BEI

Engineering measures

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of

according to the OSHA Hazard Communication Standard



Cobalt Oxide Solid Formulation

Version 1.5	Revision Date: 09/28/2024	SDS Number:Date of last issue: 04/06/202411093963-00006Date of first issue: 11/23/2022	
		the compound to uncontrolled areas (e.g., vacuum from a closed system, packout head with inflatab stationary container, ventilated enclosure, etc.). All engineering controls should be implemented be design and operated in accordance with GMP pri protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment to	le seal from by facility nciples to
Pers	onal protective equip	ent	
	viratory protection	: General and local exhaust ventilation is recomme maintain vapor exposures below recommended limits or unknown, appropriate respiratory protection shou Follow OSHA respirator regulations (29 CFR 191 use NIOSH/MSHA approved respirators. Protecti by air purifying respirators against exposure to ar hazardous chemical is limited. Use a positive pre supplied respirator if there is any potential for uno release, exposure levels are unknown, or any oth circumstance where air purifying respirators may adequate protection.	imits. Where are Id be worn. 0.134) and on provided by ssure air controlled her
Hand	I protection		
М	aterial	: Chemical-resistant gloves	
	emarks protection	 Consider double gloving. Wear safety glasses with side shields or goggles If the work environment or activity involves dusty mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if the potential for direct contact to the face with dusts, aerosols. 	conditions, nere is a
Skin	and body protection	 Work uniform or laboratory coat. Additional body garments should be used based task being performed (e.g., sleevelets, apron, gar disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove contaminated clothing. 	untlets,
Hygie	ene measures	 If exposure to chemical is likely during typical use eye flushing systems and safety showers close to working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include engineering controls, proper personal protective of appropriate degowning and decontamination pro- industrial hygiene monitoring, medical surveilland use of administrative controls. 	e review of equipment, cedures,

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: pellets



according to the OSHA Hazard Communication Standard

Cobalt Oxide Solid Formulation

Vers 1.5	ion	Revision Date: 09/28/2024		S Number: 93963-00006	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022
	Color		:	black	
	Odor Odor Threshold		:	No data available	9
			:	No data available)
	рН		:	No data available)
	Melting point/freezing point		:	No data available	
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	•
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosit Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)

according to the OSHA Hazard Communication Standard



Cobalt Oxide Solid Formulation

Versi 1.5	ion	Revision Date: 09/28/2024		9S Number: 093963-00006	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022	
	Particle Particle	characteristics size	:	No data available	9	
SEC	SECTION 10. STABILITY AND REACTIVITY					
(Reactivity Chemical stability Possibility of hazardous reac- tions		:	 Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents. 		
	Conditio	ons to avoid	:	Heat, flames and		
I	Avoid dust formation.Incompatible materials: Oxidizing agentsHazardous decomposition: No hazardous decomposition products are known.					
SEC	SECTION 11. TOXICOLOGICAL INFORMATION					
	Inhalati Skin co Ingestic Eye cor	ntact on	of	exposure		
I	Not clas	ssified based on availa	ble	information.		
<u>(</u>	Compo	onents:				
		alt tetraoxide:			00 ma/ka	
		oral toxicity		LD50 (Rat): > 5,0		
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 5.0 Exposure time: 4 Test atmosphere: Method: OECD T	h dust/mist	
	Acute d	lermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Remarks: Based		
	Skin corrosion/irritation Not classified based on available inform		information.			
<u>(</u>	Compo	onents:				
-	Tricoba	alt tetraoxide:				
	Species Method		:	reconstructed hur OECD Test Guide	nan epidermis (RhE) eline 431	
:	Species	5	:	reconstructed hur	nan epidermis (RhE)	



according to the OSHA Hazard Communication Standard

Cobalt Oxide Solid Formulation

Version 1.5	Revision Date: 09/28/2024		9S Number: 093963-00006	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022
Method		:	OECD Test Guid	leline 439
Result		:	No skin irritation	
Serious eye damage/eye Not classified based on ava <u>Components:</u>				
Tricobalt tetraoxide:				
Speci Resu Metho	lt	:	Rabbit No eye irritation OECD Test Guid	leline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Tricobalt tetraoxide:

Test Type Routes of exposure Species Method Result	:	Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 negative
Assessment	:	Probability or evidence of low to moderate respiratory sensitization rate in humans
Remarks	:	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Tricobalt tetraoxide:

Genotoxicity in vivo	:	Test Type: Mutagenicity (in vivo mammalian bone-marrow
		cytogenetic test, chromosomal analysis)
		Species: Rat
		Application Route: Ingestion
		Method: OECD Test Guideline 475
		Result: negative

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.





Cobalt Oxide Solid Formulation

ersion 5	Revision Date: 09/28/2024		DS Number: 093963-00006	Date of last issue: 04/06/2024 Date of first issue: 11/23/2022	
OSHA			this product pres regulated carcino	ent at levels greater than or equal to 0.1% is ogens.	
NTP	Tricobalt ter	Reasonably anticipated to be a human carcinogen Tricobalt tetraoxide 1308-06-1 (Cobalt and Cobalt Compounds That Release Cobalt Ions)			
-	Reproductive toxicity Not classified based on available information.				
Comp	Components:				
	balt tetraoxide: is on fertility	:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative		
Effect	s on fetal developmen	nt :	Species: Rat Application Rout	Test Guideline 414	
	STOT-single exposure Not classified based on available information.				
	-repeated exposure				
	Not classified based on available information.				
Repe	ated dose toxicity				
Comp	oonents:				
Trico	balt tetraoxide:				
Species : Rat NOAEL : 300 mg/kg					

Species	: Rat
NOAEL	: 300 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.





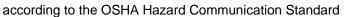
Cobalt Oxide Solid Formulation

1.5 09/20/2024 11093903-00000 Date of hist issue. 11/23/2022	Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
	1.5	09/28/2024	11093963-00006	Date of first issue: 11/23/2022

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Tricobalt tetraoxide: Toxicity to fish	posure time: 96 h	tiss (rainbow trout)): > 100 mg/l formation/dissolution testing and pompounds
Toxicity to daphnia and other aquatic invertebrates	posure time: 48 h	a (water flea)): > 100 mg/l formation/dissolution testing and ompounds
Toxicity to algae/aquatic plants	posure time: 7 d	marine algae)): > 1 - 10 mg/l formation/dissolution testing and ompounds
	posure time: 7 d	marine algae)): > 0.1 - 1 mg/l formation/dissolution testing and ompounds
Toxicity to fish (Chronic tox- icity)	posure time: 34 d	las (fathead minnow)): > 1 mg/l formation/dissolution testing and ompounds
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	posure time: 28 d ethod: OECD Test Guid	formation/dissolution testing and
Persistence and degradability		
Bioaccumulative potential No data available		
Mobility in soil No data available		
Other adverse effects		

No data available





Cobalt Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
1.5	09/28/2024	11093963-00006	Date of first issue: 11/23/2022

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Tricobalt tetraoxide)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.
		(Tricobalt tetraoxide)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	956
aircraft)		
Packing instruction (passen-	:	956
ger aircraft)		
Environmentally hazardous	÷	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Tricobalt tetraoxide)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s.



according to the OSHA Hazard Communication Standard

Cobalt Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
1.5	09/28/2024	11093963-00006	Date of first issue: 11/23/2022
Labels ERG (Code e pollutant	liters. Shipment by g may be shippe	,

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust Respiratory or ski		
SARA 313	:		nponents are subje ARA Title III, Section	ct to reporting levels n 313:
		Tricobalt tetraoxide	1308-06-1	30 %
US State Regulations				
Pennsylvania Right To Knov	v			
Iron				7439-89-6
Tricobalt tetraoxide				1308-06-1
California List of Hazardous	Su	Ibstances		
Iron				7439-89-6
The ingredients of this product are reported in the following inventories:				
AICS	:	not determined	_	
DSL	:	not determined		
IECSC	:	not determined		

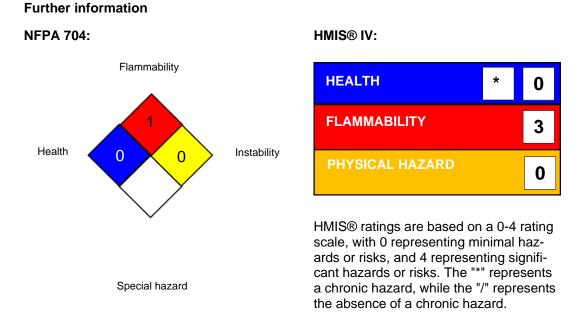




Cobalt Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
1.5	09/28/2024	11093963-00006	Date of first issue: 11/23/2022

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
ACGIH / TWA	:	8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance: ELx - Loading rate associated with x% response: EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office



according to the OSHA Hazard Communication Standard

Cobalt Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
1.5	09/28/2024	11093963-00006	Date of first issue: 11/23/2022

of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Revision Date : 09/28/2024

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8