

COBALT OXIDE Version 2.0 US SDS Number: 30000008548 Revision Date: 03/21/2023 **SECTION 1. IDENTIFICATION** Product name : COBALT OXIDE Product code : 30000008548 Manufacturer or supplier's details Company name of supplier : TODINI AND CO. Address : (FOR IT, FR, DE, ES, PL & BE) Corso Milano 46 20900 Monza Italy E-mail address of person : sds.csm@eu.umicore.com responsible for the SDS **Poison Center** Telephone : +1 800 222 1222 Hours of operation : 24HRS Supplier Emergency telephone num-: For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries):(+32) 3 213 15 70 ber For transport in the Middle East (Israel excluded) & Arabic speaking Africa:(+32) 3 213 33 79 For transport in the USA and Canada:(+1)-877 986 4267 For transport in Asian and the Pacific (China excluded):(+65) 62 64 78 36 For transport in China:(+86) 400 120 60 11 Hours of operation : This telephone number is available 24 hours per day, 7 days per week.

Recommended use of the chemical and restrictions on use

Recommended use : Industrial use

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200)	lan	ce with the OSHA Hazard Communication Standard (29 CFR
Respiratory sensitisation	:	Sub-category 1B
Short-term (acute) aquatic hazard	:	Category 2

Long-term (chronic) aquatic : Category 3 hazard



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rsion 2.0	US	SDS Number: 30000008548 Revision Date: 0	3/21/2023
GHS label elements Hazard pictograms			
Signal word		: Danger	
Hazard statements		 H334 May cause allergy or asthma symptoms or breculties if inhaled. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects 	eathing diffi
Precautionary stateme	nts	 Prevention: P261 Avoid breathing dust. P273 Avoid release to the environment. P285 In case of inadequate ventilation wear respirat tion. 	ory protec-
		Response: P304 + P341 IF INHALED: If breathing is difficult, re son to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: POISON CENTER/ doctor.	move per- Call a
		Disposal: P501 Dispose of contents/ container to an approved posal plant.	waste dis-
Other hazards			
None known.			

Substance / Mixture : Substance

•		
Chemical name	CAS-No.	Concentration (% w/w)
cobalt(II,III) oxide	1308-06-1	<= 100

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Call a physician or poison control centre immediately. Move to fresh air. If unconscious, place in recovery position and get medical attention immediately.
In case of skin contact	:	If on clothes, remove clothes.



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In case of eye contac	t	: F F K If	emove contact lenses. lush eyes with water as a precau protect unharmed eye. Geep eye wide open while rinsing eye irritation persists, consult a	ution. specialist.
If swallowed		: K C N If	eep respiratory tract clear. To not give milk or alcoholic beve lever give anything by mouth to a symptoms persist, call a physici	rages. an unconscious person. an.
Most important sympt and effects, both acut delayed	oms e and	: A Ir S A	Illergic reactions hhalation may provoke the follow hortness of breath Isthma	ing symptoms:

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	Metal oxides
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece).



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SECTION 7. HANDLING AND STORAGE

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Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Provide sufficient air exchange and/or exhaust in work rooms. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be empl oyed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. To maintain product quality, do not store in heat or direct sun- light.
Further information on stor- age stability	:	Keep in a dry place. No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m3 Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3



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Dust, nuisance dust and par- ticulates		10 mg/m3 Value type (Fo Basis: CAL PE	10 mg/m3 Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL					
		5 mg/m3 Value type (Fo Basis: CAL PE	orm of exposure) EL	: PEL (respirable dus	t fraction)			
Components		CAS-No.	Value type	Control parame-	Basis			

Components	CAS-NO.	(Form of	ters / Permissible	Dasis
		exposure)	concentration	
cobalt(II,III) oxide	1308-06-1	TWA (Inhal-	0.02 mg/m3 (Cobalt)	ACGIH
		able particu-	(Cobait)	
		late matter)		

Biological occupational exposure limits

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

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment Docnirat

Respiratory protection :		Wear a NIOSH-approved respirator Category 21C air-purifying respirator equipped with a full facepiece and high efficiency particulate filters.
		In the case of dust or aerosol formation use respirator with an approved filter. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection Material Break through time Glove thickness	:	Nitrile rubber > 480 min 0.12 mm
Material Break through time Glove thickness	:	PVC > 480 min 1.1 mm
Material Break through time Glove thickness	:	Neoprene > 480 min 0.35 mm
Glove length	:	Long sleeve gloves



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Eye protection	:	Wear safety glasses with side shields or goggles.
Skin and body protect	ion :	Dust impervious protective suit Footwear protecting against chemicals
Hygiene measures	:	General industrial hygiene practice. Wash hands before breaks and at the end of workday.
SECTION 9. PHYSICAL A	ND CHEMI	ICAL PROPERTIES
Appearance	:	powder
Colour	:	black
Odour	:	odourless
Melting point/range	:	Decomposition
Boiling point/boiling ra	nge :	Not applicable
Flash point	:	Method: closed cup Not applicable
Flammability (solid, ga	as) :	The product is not flammable.
Density	:	6.07 g/cm3 (68 °F / 20 °C)
Solubility(ies) Water solubility	:	0.00162 g/l practically insoluble
Decomposition tempe	rature :	1652 °F / 900 °C
Molecular weight	:	240.8 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.	
		No dangerous reaction known under conditions of normal use.	
Chemical stability	:	No decomposition if stored and applied as directed.	
Possibility of hazardous reac- tions	:	Stable under recommended storage conditions.	
Conditions to avoid	:	None known.	
Incompatible materials	:	None known.	
Hazardous decomposition	:	No decomposition if stored normally.	



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SECTION 11. TOXICOLOGICAL INFORMATION

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Acute toxicity

Components:

cobalt(II,III) oxide:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5.06 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg

GLP: yes

Method: OECD Test Guideline 402

Skin corrosion/irritation

Components:

cobalt(II,III) oxide:

Assessment	:	No skin irritation
GLP	:	yes

Serious eye damage/eye irritation

Components:

cobalt(II,III) oxide:

Result	:	No eye irritation
GLP	:	yes

Respiratory or skin sensitisation

Components:

cobalt(II,III) oxide:

Result

: The product is a respiratory sensitiser, sub-category 1B.

Germ cell mutagenicity

Components:

cobalt(II,III) oxide:

Genotoxicity in vitro	:	Test Type: In vitro mammalian cell gene mutation test
		Test system: mouse lymphoma cells
		Metabolic activation: with and without metabolic activation
		Method: OECD Test Guideline 476



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		Result: negative GLP: yes Remarks: Based on read across from structural related sub- stance cobalt sulphide
Genotoxicity in v	vivo	 Test Type: Micronucleus test Species: Mouse (male and female) Strain: B6C3F1 Application Route: inhalation (dust/mist/fume) Exposure time: 91 d Dose: 0.625, 1.25, 2.5, 5, 10 mg/m³ Method: OECD Test Guideline 474 Result: negative GLP: yes Remarks: Based on read across from structural related sub- stance Cobalt
Carcinogenicit	у	
IARC	No component identified as pr	of this product present at levels greater than or equal to 0.1% is obable, possible or confirmed human carcinogen by IARC.
OSHA	No component on OSHA's list	of this product present at levels greater than or equal to 0.1% is of regulated carcinogens.
NTP	No component identified as a	of this product present at levels greater than or equal to 0.1% is known or anticipated carcinogen by NTP.
Reproductive t	oxicity	
Components:		
cobalt(II,III) oxi Effects on fertili	de: ty	 Species: Rat, male and female Strain: CD Application Route: oral (gavage) Dose: 0, 100, 300, 1000 milligram per kilogram General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight General Toxicity F1: NOAEL: 1,000 mg/kg body weight Method: OECD Test Guideline 422 Result: Not classified GLP: yes Remarks: Based on read across from structural related substance cobalt sulphide Test Type: Fertility Species: Rat, male and female Strain: CD Application Route: oral (gavage) Dose: 100, 300, 1000 milligram per kilogram Duration of Single Treatment: 90 d General Toxicity - Parent: NOAEL: 1,000 mg/kg body weight



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		Met GLI	hod: OECD Test Guideline 408 P: yes	
Effects on foetal of ment	develop-	: Tes Spe Stra App Dos Dur Ger wei Dev Met GLI	t Type: Embryo-foetal developn ccies: Rat, male and female ain: CD dication Route: oral (gavage) se: 0, 100, 300, 1000 milligram p ation of Single Treatment: 13 d heral Toxicity Maternal: NOAEL: ght relopmental Toxicity: NOAEL: > hod: OECD Test Guideline 414 P: yes	nent ber kilogram : > 1,000 mg/kg body 1,000 mg/kg body weight
Repeated dose t	oxicity			
<u>Components:</u>				
cobalt(II,III) oxid Species NOAEL Application Route Number of expos Dose Method GLP	e: 9 ures	: Rat : 1,00 : oral : dail : 0, 1 : OE	, male and female 00 mg/kg (gavage) y 00, 300, 1000 mg/kg CD Test Guideline 422	
Species NOAEL Application Route Exposure time Number of expos Dose Method GLP	e ures	: Rat : 300 : oral : 90 (: dail : 100 : OE(: yes	, male and female mg/kg (gavage) d y , 300, 1000 mg/kg CD Test Guideline 408	
Species Application Route Exposure time Number of expos Dose Method GLP Remarks	e ures	: Rat : 0.3' : inha : 105 : 5 d/ : 0, 0 : No : yes : Bas Cot	, male and female I mg/I alation (aerosol) Weeks w .3, 1.0, 3 mg/m ³ guideline followed ed on read across from structur palt sulphate	al related substance
Species Application Route Exposure time Number of expos Dose Method	e ures	: Mou : 0.3 : inha : 105 : 5 d/ : 0, 0 : No	use, male and female mg/l alation (aerosol) Weeks w .3, 1.0, 3 mg/m ³ guideline followed	



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GLP Remarks			yes Based on read across from structur Copper sulphate	al related substance
Further information	1			
Product:				
Remarks		:	No data available	
SECTION 12. ECOLOGIC		RN	IATION	
Ecotoxicity				
Components:				
cobalt(II,III) oxide:				
Toxicity to fish		:	LC50 (Oncorhynchus mykiss (rainb Exposure time: 96 h Remarks: Fresh water Based on read across from structur cobalt dichloride hexahydrate	ow trout)): 1.51 mg/l al related substance
Toxicity to daphnia a aquatic invertebrates	nd other	•	LC50 (Cladoceran (water flea)): 0.6 Remarks: Fresh water unit expressed as mg metal/I Based on read across from structur cobalt dichloride hexahydrate	1 mg/l al related substance
Toxicity to algae/aqu plants	atic	:	EC50 (Lemna minor (duckweed)): (Exposure time: 7 DAYS Remarks: Fresh water Based on read across from structur cobalt dichloride hexahydrate	0.1985 mg/l al related substance
Toxicity to fish (Chro icity)	nic tox-	•	EC10 (Pimephales promelas (fathe Remarks: unit expressed as mg me Fresh water Based on read across from structur cobalt dichloride hexahydrate	ad minnow)): 0.351 mg/l etal/l al related substance
			EC10 (Cyprinodon sp. (minnow)): 3 Remarks: Marine water unit expressed as mg metal/I Based on read across from structur cobalt dichloride hexahydrate	1.8 mg/l al related substance
Toxicity to daphnia a aquatic invertebrates ic toxicity)	nd other s (Chron-	:	EC10 (Hyalella azteca): 0.00547 m Remarks: Fresh water unit expressed as mg metal/l Based on read across from structur cobalt dichloride hexahydrate	g/l al related substance

Ecotoxicology Assessment



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Chronic aquatic to	xicity	:	Harmful to aquatic life with long las	ting effects.
Persistence and on No data available Bioaccumulative	degradabili potential	ty		
Components:				
cobalt(II,III) oxide Bioaccumulation	:	:	Bioconcentration factor (BCF): 180	- 4,000
Mobility in soil No data available				
Other adverse eff	fects			
Product:				
Ozone-Depletion F	Potential	:	Regulation: 40 CFR Protection of E tection of Stratospheric Ozone - CA Substances Remarks: This product neither cont tured with a Class I or Class II ODS Clean Air Act Section 602 (40 CFR	nvironment; Part 82 Pro- A Section 602 Class I ains, nor was manufac- as defined by the U.S. 82, Subpt. A, App.A + B).
Additional ecologic mation	cal infor-	:	Harmful to aquatic life with long las	ting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues :	The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemi- cal or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging :	Empty remaining contents. Dispose of contaminated packaging as if unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good



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IMDG-Code

Not regulated as a dangerous good

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

49 CFR

Not regulated as a dangerous good

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	:	Respiratory or skin sens	itisation	
SARA 313	:	The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:		
		cobalt(II,III) oxide 1308	-06-1 100 %	

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

cobalt(II,III) oxide 1308-06-1 100 % This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know



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cobalt(II,	,III) oxide			1308-06-1
Maine Chemicals	of High Co	onc	ern	
Product	does not c	onta	ain any listed chemicals	
Vermont Chemica	als of High	Co	ncern	
cobalt(II,	,III) oxide			1308-06-1
Washington Chen cobalt(II,	n <mark>icals of</mark> H ,III) oxide	ligh	Concern	1308-06-1
California Prop. 6	5			
This product does defects, or any oth	not contain er reproduc	an <u>y</u> ctive	y chemicals known to State of Ca	lifornia to cause cancer, birth
The components	of this pro	duo	ct are reported in the following	inventories:
TCSI		:	On the inventory, or in compliar	nce with the inventory
TSCA		:	All substances listed as active of	on the TSCA inventory
AIIC		:	On the inventory, or in compliar	ce with the inventory
DSL		:	All components of this product a	are on the Canadian DSL
ENCS		:	On the inventory, or in compliar	nce with the inventory
ISHL		:	On the inventory, or in compliar	nce with the inventory
KECI		:	On the inventory, or in compliar	nce with the inventory
PICCS		:	On the inventory, or in compliar	ce with the inventory
IECSC		:	On the inventory, or in compliar	ce with the inventory
NZIoC		:	On the inventory, or in compliar	ce with the inventory
CH INV		:	On the inventory, or in compliar	nce with the inventory
TECI		:	On the inventory, or in compliar	nce with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information





ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
CAL PEL	:	California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
CAL PEL / PEL	:	Permissible exposure limit
OSHA Z-3 / 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 of Chemical Safety and Pollution Prevention; PBT - Persistent, BioaccumuUS



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lative 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

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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