according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	11153937-00008	Date of first issue: 2022/12/20

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Copper Oxide Solid Formulation
Other means of identification	:	COOPERS PERMATRACE COPPER 10 CAPSULES FOR CALVES AND ADULT CATTLE (47689) COOPERS PERMATRACE COPPER 20 CAPSULES FOR CATTLE (47688) COOPERS PERMATRACE COPPER CAPSULES FOR ADULT SHEEP & GOATS (47637)

Manufacturer or supplier's details

Company	:	MSD
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331
Telephone	:	+1-908-740-4000
Emergency telephone number	:	86-571-87268110
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use	:	Veterinary product

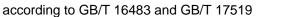
	•	votorinary produ
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

Emergency Overview	
Appearance	: capsule
Colour	: metallic grey
Odour	: No data available
Very toxic to aquatic life with	ong lasting effects.
GHS Classification	
Short-term (acute) aquatic hazard	: Category 1

Long-term (chronic) aquatic	:	Category 1
hazard		

GHS label elements





Copper Oxide Solid Formulation

Version 5.0	Revision Date: 2024/09/28		9S Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
Hazard	pictograms	:	¥	
Signal	word	:	Warning	
Hazard	statements	:	H410 Very toxic	to aquatic life with long lasting effects.
Precau	tionary statements	:	Prevention: P273 Avoid relea	ase to the environment.
			Response: P391 Collect spi	llage.
			Disposal: P501 Dispose of	contents/ container to an approved waste

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

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Copper oxide	1317-38-0	>= 30 -< 50
Diiron trioxide	1309-37-1	>= 1 -< 10
tert-Butyl-4-methoxyphenol	25013-16-5	>= 0.25 -< 1
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 0.1 -< 0.25

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately.
		When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air.

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Versior 5.0	n Revision Date: 2024/09/28		0S Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20			
In	case of skin contact	:	of water.	ated clothing and shoes. tion.			
	In case of eye contact		 Thoroughly clean shoes before reuse. If in eyes, rinse well with water. Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. 				
Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician		:	Get medical attention. Rinse mouth thoroughly with water. Contact with dust can cause mechanical irritation or drying of 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). Treat symptomatically and supportively.				
5. FIRE	FIGHTING MEASURES						
Su	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
	nsuitable extinguishing edia	:	None known.				
	ecific hazards during fire- hting	:	Exposure to comb	pustion products may be a hazard to health.			
Ha uc	azardous combustion prod- ts	:	Carbon oxides Metal oxides				
Sr od	ecific extinguishing meth- s	:	cumstances and t Use water spray t	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			
	ecial protective equipment firefighters	:		e, wear self-contained breathing apparatus. tective equipment.			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Versio 5.0	on	Revision Date: 2024/09/28		S Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
E	Environ	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
		s and materials for ment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

7. HANDLING AND STORAGE

Handling		
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	11153937-00008	Date of first issue: 2022/12/20

Packaging material

: Unsuitable material: None known.

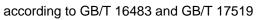
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Diiron trioxide	1309-37-1	TWA (Res- pirable par- ticulate mat- ter)	5 mg/m3	ACGIH
2,6-Di-tert-butyl-p-cresol	128-37-0	TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH

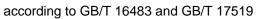
Engineering measures :	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipmen	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type :	Particulates type
Eye/face protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin and body protection : Hand protection	Work uniform or laboratory coat.
Material :	Chemical-resistant gloves
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

9. PHYSICAL AND CHEMICAL PROPERTIES





Vers 5.0	ion	Revision Date: 2024/09/28		S Number: 53937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
	Appear	ance	:	capsule	
	Colour			metallic	
	Colour		•	grey	
	Odour		:	No data available	2
	Odour ⁻	Threshold	:	No data available	9
	pН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	2
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ive dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	2
	Viscosi [.] Visc	ty cosity, kinematic	:	Not applicable	





ersion D	Revision Date: 2024/09/28	SDS Number: 11153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20			
Explo	sive properties	: Not explosive				
Oxidiz	zing properties	: The substance	or mixture is not classified as oxidizing.			
Moleo	cular weight	: No data availat	le			
	le characteristics le size	: No data availat	le			
). STABI	LITY AND REACTIVITY	,				
	tivity hical stability bility of hazardous reac-	 Stable under no May form explo dling or other m 	s a reactivity hazard. ormal conditions. sive dust-air mixture during processing, han- eans. strong oxidizing agents.			
Cond	itions to avoid	: Heat, flames ar				
	npatible materials rdous decomposition icts	Avoid dust formation.Oxidizing agentsNo hazardous decomposition products are known.				
I. TOXIC	OLOGICAL INFORMAT	ION				
Expo	sure routes	: Inhalation Skin contact Ingestion Eye contact				
	e toxicity	-				
	lassified based on availa	ble information.				
-	<u>ponents:</u>					
Copper oxide: Acute oral toxicity		: LD50 (Rat): > 2, Assessment: Th icity	500 mg/kg e substance or mixture has no acute oral to>			
Acute dermal toxicity			000 mg/kg Test Guideline 402 e substance or mixture has no acute dermal			
Diiro	n trioxide:					
Acute	e oral toxicity	: LD50 (Rat): > 5 Method: Directiv	000 mg/kg e 67/548/EEC, Annex V, B.1.			
		7 / 19				

according to GB/T 16483 and GB/T 17519



Version 5.0	Revision Date: 2024/09/28		OS Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20		
Acute	inhalation toxicity	:		h		
tert-E	Butyl-4-methoxypheno	l:				
	e oral toxicity	:	LD50 (Rabbit): 2,	100 mg/kg		
Acute	Acute dermal toxicity		LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity			
11 2.6-D	i-tert-butyl-p-cresol:					
	e oral toxicity	:	LD50 (Rat): > 6,0 Method: OECD T			
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute dermal		
Not c	corrosion/irritation lassified based on availa ponents:	able	information.			
	ber oxide:		Dabbit			
Spec Meth Resu	od	:	Rabbit OECD Test Guide No skin irritation	eline 404		
Diiro	n trioxide:					
Spec Meth Resu	ies od	:	Rabbit OECD Test Guide No skin irritation	eline 404		
tort-F	Butyl-4-methoxypheno	1-				
Spec Resu	ies	:	Rabbit Skin irritation			
2,6-D Spec Meth Resu	od		Rabbit OECD Test Guid No skin irritation	eline 404		





Version 5.0	Revision Date: 2024/09/28	SDS Number: 11153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
Rema	arks	: Based on data fr	om similar materials
Not c	ous eye damage/eye irr lassified based on availa		
	ponents:		
	ber oxide:	. Dahkit	
Spec Resu Meth	lt	: Rabbit : No eye irritation : OECD Test Guid	eline 405
Diiro	n trioxide:		
Spec	ies	: Rabbit	
Resu Meth		: No eye irritation : OECD Test Guid	eline 405
tert-E	Butyl-4-methoxyphenol	:	
Spec		: Rabbit	reversing within 21 days
Resu Rema			reversing within 21 days om similar materials
2,6-D	i-tert-butyl-p-cresol:		
Spec		: Rabbit	
Resu Meth		: No eye irritation : OECD Test Guid	eline 405
Rema	arks		om similar materials
Resp	piratory or skin sensitis	ation	
	sensitisation lassified based on availa	able information.	
Resp	iratory sensitisation		
Not c	lassified based on availa	able information.	
<u>Com</u>	ponents:		
Copp	per oxide:		
Test	Type sure routes	: Maximisation Tes : Skin contact	st
Spec		: Guinea pig	
Meth Resu		: OECD Test Guid : negative	eline 406
tert-E	Butyl-4-methoxyphenol	:	
Test Expo	Type sure routes	: Human repeat in : Skin contact	sult patch test (HRIPT)



according to GB/T 16483 and GB/T 17519

ersion 0	Revision Date: 2024/09/28	SDS Number: 11153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
Resu	lt	: negative	
26.0	i-tert-butyl-p-cresol:		
			t incult notch toot (UDIDT)
Test	sure routes	: Skin contact	at insult patch test (HRIPT)
Speci		: Humans	
Resu		: negative	
Germ	cell mutagenicity		
	lassified based on ava	ailable information.	
	oonents:		
	er oxide:	Test Trace D	
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive
			sed on data from similar materials
Geno	toxicity in vivo	cytogenetic a	
		Species: Mou	
			oute: Ingestion
		Result: negat Remarks: Ba	sed on data from similar materials
Diiro	n trioxide:		
Geno	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive
Geno	toxicity in vivo	Species: Rat	vivo mammalian alkaline comet assay
			oute: Ingestion
		Method: OEC Result: negat	D Test Guideline 489 ive
II tert-E	Butyl-4-methoxypher	nol:	
	toxicity in vitro		acterial reverse mutation assay (AMES) ive
			vitro mammalian cell gene mutation test D Test Guideline 476 ive
		Test Type: C Result: negat	hromosome aberration test in vitro ive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro)

Version

according to GB/T 16483 and GB/T 17519

Revision Date:



Date of last issue: 2024/07/06

Copper Oxide Solid Formulation

SDS Number:

0	2024/09/28	11	153937-00008	Date of first issue: 2022/12/20
11			Result: negative	9
II 				
	Di-tert-butyl-p-cresol: otoxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test
			Test Type: Chro Result: negative	omosome aberration test in vitro
Geno	otoxicity in vivo	:		
	inogenicity			
Not o	classified based on avai	lable	information.	
<u>Com</u>	ponents:			
tert-l	Butyl-4-methoxyphene	ol:		
Spec		:	Rat	
	ication Route osure time	:	Ingestion 104 weeks	
Resu		:	positive	
Spec	cies	:	Hamster, male	
Appl	ication Route	:	Ingestion	
Expo Resu	osure time ult	:	24 weeks positive	
Carc ment	inogenicity - Assess- t	:	Limited evidenc	e of carcinogenicity in animal studies
2,6-0	Di-tert-butyl-p-cresol:			
Spec		:	Rat	
	ication Route	:	Ingestion	
Resu	osure time ult	:	22 Months negative	
-	roductive toxicity classified based on avai	lable	information.	
<u>Com</u>	ponents:			
Con	per oxide:			
COD				

according to GB/T 16483 and GB/T 17519



ersion D	Revision Date: 2024/09/28	SDS Number:Date of last issue: 2024/07/0611153937-00008Date of first issue: 2022/12/20
		Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials
ll tort-B	Butyl-4-methoxyphenc	
	s on fertility	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effect ment	s on foetal develop-	: Test Type: Fertility/early embryonic development Species: Mouse Application Route: Ingestion Result: positive
Repro sessn	oductive toxicity - As- nent	: Some evidence of adverse effects on development, based animal experiments.
2,6-D	i-tert-butyl-p-cresol:	
Effect	s on fertility	: Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effect ment	s on foetal develop-	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative
STOT	- single exposure lassified based on avail	able information.
	- repeated exposure	
	lassified based on avail	able information.
	<u>oonents:</u> i-tert-butyl-p-cresol:	
Asses		: No significant health effects observed in animals at conce tions of 100 mg/kg bw or less.
Repe	ated dose toxicity	
<u>Com</u>	oonents:	
	er oxide:	
Speci	es	: Mouse

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Version	Revision Date: 2024/09/28	SDS Number:	Date of last issue: 2024/07/06
5.0		11153937-00008	Date of first issue: 2022/12/20

Application Route:Exposure time:92	000 ppm gestion 2 Days ased on data from similar materials
------------------------------------	---

Diiron trioxide:

: Rat
: >= 1,000 mg/kg
: Ingestion
: 90 Days
: OECD Test Guideline 408

tert-Butyl-4-methoxyphenol:

:	Rat
:	50 mg/kg
:	250 mg/kg
:	Ingestion
:	8 Months

2,6-Di-tert-butyl-p-cresol:

Species NOAEL Application Route	: Rat	
NOAEL	: 25 mg/	kg
Application Route	: Ingesti	on
Exposure time	: 22 Mor	nths

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Copper oxide:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 0.01 - 0.1 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0.1 - 1 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
M-Factor (Acute aquatic tox- icity)	:	10
	:	NOEC (Oncorhynchus mykiss (rainbow trout)): > 0.001 - 0.01

according to GB/T 16483 and GB/T 17519



ersion 0	Revision Date: 2024/09/28	-	0S Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
icity)			mg/l Exposure time: 32 Remarks: Based	2 d on data from similar materials
	y to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 7	nnia dubia (water flea)): > 0.001 - 0.01 mg/l d on data from similar materials
M-Fact toxicity	or (Chronic aquatic)	:	10	
Diiron	trioxide:			
Toxicity	y to fish	:	LL50 (Danio rerio Exposure time: 96	(zebra fish)): > 10,000 mg/l 5 h
	y to daphnia and other invertebrates	:	EL50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicit <u>y</u> plants	y to algae/aquatic	:	EL50 (Raphidoce mg/l Exposure time: 72 Method: OECD T	
			NOELR (Raphido >= 20 mg/l Exposure time: 72 Method: OECD T	
	y to daphnia and other invertebrates (Chron- ity)	:	NOELR (Daphnia Exposure time: 2 ⁷ Method: OECD T	
Toxicit	y to microorganisms	:	Exposure time: 3 Method: ISO 8192	
II tort-Bi	utul 4 mothoxymbonol			
	ityl-4-methoxyphenol : y to fish	:	LC50 (Danio reric Exposure time: 96 Method: OECD T	o (zebra fish)): 1.56 mg/l 5 h est Guideline 203
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicit <u>y</u> plants	y to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Method: OECD T	

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

rsion)	Revision Date: 2024/09/28		OS Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
			mg/l Exposure time: 7	kirchneriella subcapitata (green algae)): 0.25 72 h Test Guideline 201
2 6-D	i-tert-butyl-p-cresol:			
	ity to fish	:	Exposure time: 9	io (zebra fish)): > 0.57 mg/l 96 h e 67/548/EEC, Annex V, C.1.
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	magna (Water flea)): 0.48 mg/l 48 h Test Guideline 202
Toxic plants	ity to algae/aquatic S	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): > 0.2 72 h Test Guideline 201
			mg/l Exposure time: 7	kirchneriella subcapitata (green algae)): 0.24 72 h Test Guideline 201
M-Fa	ctor (Acute aquatic tox-	:	1	
	ity to fish (Chronic tox-	:	Exposure time: 3	latipes (Japanese medaka)): 0.053 mg/l 30 d Test Guideline 210
	tic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.316 mg/l 21 d
M-Fa	ctor (Chronic aquatic	:	1	
	ity to microorganisms	:	EC50: > 10,000 Exposure time: 3 Method: OECD	
Persi	stence and degradabili	ity		
<u>Com</u>	ponents:			
2,6-D	i-tert-butyl-p-cresol:			
	egradability	:	Result: Not read Biodegradation:	

Method: OECD Test Guideline 301C

Exposure time: 28 d

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	11153937-00008	Date of first issue: 2022/12/20

Bioaccumulative potential

Components:

tert-Butyl-4-methoxyphenol	:	
Bioaccumulation	:	Species: Oryzias latipes (Orange-red killifish) Bioconcentration factor (BCF): 16 - 21
Partition coefficient: n- octanol/water	:	log Pow: 2.82 Method: OECD Test Guideline 117
2,6-Di-tert-butyl-p-cresol:		
Bioaccumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 330 - 1,800
Partition coefficient: n- octanol/water	:	log Pow: 5.1
Mobility in soil		
No data available		
Other adverse effects No data available		

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

International Regulations

UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S. (Copper oxide, 2,6-Di-tert-butyl-p-cresol)
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. (Copper oxide, 2,6-Di-tert-butyl-p-cresol)

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Version 5.0	Revision Date: 2024/09/28	-	0S Number: 153937-00008	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20
Class		:	9	
Packir	ig group	:	III	
Labels		:	Miscellaneous	
Packir aircraf	g instruction (cargo t)	:	956	
Packir ger air	g instruction (passen- craft)	:	956	
	nmentally hazardous	:	yes	
IMDG-	Code			
UN nu	mber	:	UN 3077	
Proper	shipping name	:	ENVIRONMENT	ALLY HAZARDOUS SUBSTANCE, SOLID,
			N.O.S.	
			(Copper oxide, 2,	6-Di-tert-butyl-p-cresol)
Class		:	9	
Packir	g group	:	III	
Labels		:	9	
EmS (Code	:	F-A, S-F	
Marine	e pollutant	:	yes	

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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Copper oxide, 2,6-Di-tert-butyl-p-cresol)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no
•		

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.

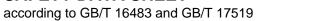
15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals

: This product is not listed in the catalogue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of determination.





Copper Oxide Solid Formulation

Version 5.0	Revision Date: 2024/09/28	SDS Number: 11153937-000	Date of last issue: 2024/07/06 Date of first issue: 2022/12/20		
Ident 1821		Installations fo	Hazardous Chemicals (GB : Not listed		
Haza SAW	ardous Chemicals for Pri /S	ority Manageme	nt under : Not listed		
	ulations on Labour Pro logue of Highly Toxic Ch		cplaces where Toxic Substances are Used : Not listed		
	ulation of Environment Export of Toxic Chemi		on the First Import of Chemicals and the Import		
China	•		or Import : Not listed		
-	Regulation on the Administration of Precursor Chemicals Catalogue and Classification of Precursor Chemicals : Not listed				
Yang	gtze River Protection L	aw			
This	product does not contain	n any dangerous	s chemicals prohibited for inland river transport.		
	• •	oduct are repor	ted in the following inventories:		
AICS	3	: not determ	lined		
DSL		: not determ	lined		
IECS	SC	: not determ	ined		
16. OTHE					
Revis	sion Date	: 2024/09/2	8		
Furtl	her information				
	ces of key data used to bile the Safety Data et	eChem Po	chnical data, data from raw material SDSs, OECD ortal search results and European Chemicals Agen- cha.europa.eu/		
Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.					
Date	format	: yyyy/mm/c	ld		
Full	Full text of other abbreviations				
ACG	IH	: USA. ACG	IH Threshold Limit Values (TLV)		
ACG	ACGIH / TWA : 8-hour, time-weighted average				
AIIC	AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by				

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -

according to GB/T 16483 and GB/T 17519



Copper Oxide Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
5.0	2024/09/28	11153937-00008	Date of first issue: 2022/12/20

Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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.

CN / EN