

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 06-Oct-2009	Revision Date 24-Nov-2014	Revision Number 1	
	1. Identification		
Product Name	Cupric Carbonate, Basic Hydrate		
Cat No. :	C453-500		
Synonyms Cupric Carbonate; Copper (II) Carbonate Hydroxide; Basic Copper Carbonate			
Recommended Use Laboratory chemicals.			
Uses advised against No Information available Details of the supplier of the safety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-38	87	

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 3
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous system (C	NS).
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Blood.	

Label Elements

Signal Word Danger

Hazard Statements

Toxic if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear eye/face protection Do not get in eyes, on skin, or on clothing Response Get medical attention/advice if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Indestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Spills Collect spillage Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC)

None identified

3. Composition / information on ingredients

Component	CAS-No	Weight %	
Copper(II) carbonate hydroxide	12069-69-1	100	

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical attention is required.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically

	5. Fire-fighting measures
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available et No information available No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products Copper oxides Carbon monoxide (CO) Carbon dioxide (CO₂) Protective Equipment and Precautions for Firefighters

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

NFPA	
-	

Health Flammability		Instability	Physical hazards N/A			
-	• 					
	6. Accidental re	elease measures				
Personal Precautions	Ensure adequate ventilati not get in eyes, on skin, c		ipment. Avoid dust formation. Do			
Environmental Precautions	See Section 12 for addition	onal ecological information.				
Methods for Containment and Cle Up	Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.					
7. Handling and storage						
Handling		equipment. Ensure adequate ve get in eyes, on skin, or on clothir	entilation. Avoid dust formation. Do			
Storage	Keep containers tightly cl	osed in a dry, cool and well-vent	ilated place.			
8. Exposure controls / personal protection						
Exposure Guidelines	•	ntain any hazardous materials w specific regulatory bodies.	ith occupational exposure limits			

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper(II) carbonate hydroxide	TWA: 1 mg/m ³		IDLH: 100 mg/m ³
	ů		TWA: 1 mg/m ³

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Solid

	2. i iiy.
Physical State	
Appearance	
Odor	
Odor Threshold	
рН	
Melting Point/Range	
Boiling Point/Range	
Flash Point	
Evaporation Rate	
Flammability (solid,gas)	
Flammability or explosive limits	
Upper	
Lower	
Vapor Pressure	
Vapor Density	
Relative Density	
Solubility	
Partition coefficient; n-octanol/wa	iter
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

Greenish-blue Odorless No information available 200 °C / 392 °F 240 °C / 464 °F Not applicable No information available No data available No data available No data available No information available

No data available No information available No information available No information available Cu2CH2O5.H2O 221.103

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products Copper oxides, Carbon monoxide (CO), Carbon dioxide (CO2)	
Hazardous Polymerization	Hazardous polymerization does not occur.

Hazardous Reactions

None under normal processing.

11. Toxicological information

Acute Toxicity

Component Informa	1		l.				
Component		LD50 Oral		LD50 Dermal		Inhalation	
Copper(II) carbonate hydroxide		1350 mg/kg (Rat) 159 mg/kg(Rat)	1350 mg/kg (Rat) Not listed Not listed 159 mg/kg (Rat)			ot listed	
Toxicologically Syn	ergistic	No information ava	ailable				
Products							
Delayed and immed	liate effects	as well as chronic effe	cts from short ar	nd long-term expo	osure		
Irritation		Irritating to eyes, re	espiratory system	and skin			
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Copper(II) carbonate hydroxide	12069-69	-1 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effects		No information ava	No information available.				
Developmental Effe	cts	No information ava	No information available.				
Teratogenicity		No information ava	No information available.				
STOT - single exposure STOT - repeated exposure		Respiratory systen Blood	Respiratory system Central nervous system (CNS) Blood				
Aspiration hazard		No information ava	No information available				
Symptoms / effects,both acute and delayed		and No information ava	No information available				
Endocrine Disruptor Information No information available							
Other Adverse Effect	cts		The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.				
		12. Ecolo	ogical infor	mation			
Ecotoxicity Do not empty into dra	ains.						
Persistence and De	gradability	No information ava	ailable				

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

13. Disposal considerations

Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified as a
hazardous waste. Chemical waste generators must also consult local, regional, and
national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
TDG	
UN-No	UN3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
UN-No	UN3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
IMDG/IMO	
UN-No	UN3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S.
Hazard Class	6.1
Packing Group	
	15. Regulatory information

All of the components in the product are on the following Inventory lists:

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Copper(II) carbonate	Х	Х	-	235-113-6	-		Х	Х	Х	Х	Х
hydroxide											

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA	313

SARA 313 Not applicable	е		
Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Copper(II) carbonate hydroxide	12069-69-1	100	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act	Not applicable

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Copper(II) carbonate hydroxide	-	-	Х	-

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Copper(II) carbonate	-	Х	Х	-	-
hydroxide					

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials D1A Very toxic materials



16. Other information

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

06-Oct-2009

Creation Date Revision Date Print Date Revision Summary

Prepared By

24-Nov-2014 24-Nov-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS