

SAFETY DATA SHEET

Creation Date 19-Oct-2009

Revision Date 17-Dec-2019

Revision Number 5

	1. Identification
Product Name	Copper(II) sulfate pentahydrate
Cat No. :	AC423610000; AC423610100; AC423610030; AC423610050; AC423615000
	7758-00-8

CAS-No Synonyms 7758-99-8 Blue Vitrio



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

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

3. C	omposition/Information on Ing	gredients	
Component Copper (II) sulfate pentahydrate Cupric sulfate	e (1:1:5) CAS-No 7758-99-8 7758-98-7	Weight % >95 -	
	4. First-aid measures		
General Advice	If symptoms persist, call a physician.		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.		
Most important symptoms and effects	Causes severe eye damage.		
Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Unsuitable Extinguishing Media

No information available

Flash Point

Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Sulfur oxides. Copper oxides.

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.

<u>NFPA</u>

	6. Accidental release measures
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local au

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН **Melting Point/Range Boiling Point/Range** Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Molecular Formula Molecular Weight**

Solid Blue Odorless No information available 3.5-4.5 5% aq. solution 110 °C / 230 °F No information available No information available Not applicable No information available

No data available No data available 7.3 mmHg @ 25 °C Not applicable No information available Soluble in water No data available No information available No information available Not applicable CuO4S.5H2O 249.68

Copper(II) sulfate pentahydrate

		LD50 = 960 mg/kg (Rat LD50 = 300 mg/kg (Rat		> 8 g/kg (Rabbit) 0 > 2 g/kg (Rat)		Not listed		
Toxicologically Synergistic Products		LD50 = 481 mg/kg(Rat No information availa	able	1000 mg/kg (Rabbit)		Not listed		
Delayed and immediate eff	iects as v	ven as chronic enects	s from short an	a long-term expos	<u>sure</u>			
Irritation		Irritating to eyes and	Irritating to eyes and skin					
Sensitization		No information availa	able					
Carcinogenicity		The table below indic	cates whether ea	ach agency has liste	ed any ingredier	nt as a carcinogen.		
••••••••••••••••••••••••••••••••••••••	AS-No 58-99-8	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed		
	58-98-7	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information availa	able					
Reproductive Effects		No information available.						
Developmental Effects		No information available.						
Teratogenicity		No information available.						
STOT - single exposure STOT - repeated exposure		None known None known						
Aspiration hazard		No information available						
Symptoms / effects,both acute and delayed		No information available						
Endocrine Disruptor Information		No information available						
Other Adverse Effects		The toxicological pro	perties have not	been fully investig	ated.			
		12. Ecolog	gical infor	mation				

Waste Disposal Methods

Chemical 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	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
TDG	
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	III
UN-No Broney Shinning Name	UN3077
Proper Shipping Name Hazard Class	Environmentally hazardous substances, solid, n.o.s. 9
Packing Group	
IMDG/IMO	11
UN-No	UN3077
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
Packing Group	
	15. Regulatory information
	15. Regulatory mornation

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Copper (II) sulfate pentahydrate (1:1:5)	7758-99-8	-	-	-

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Copper (II) sulfate pentahydrate (1:1:5)	-	-	Х	-
Cupric sulfate	Х	10 lb	X	-

Clean Air Act

Not applicable

OSHA - Occupational Safety and Not applicable Health Administration

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Cupric sulfate	10 lb	-
California Proposition 65 This prod	uct does not contain any Proposition 65 ch	emicals.

U.S. State Right-to-Know

Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Copper (II) sulfate	-	Х	Х	-	-
pentahydrate (1:1:5)					
Cupric sulfate	Х	Х	Х	-	-

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	Y N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

	16. Other information
Prepared By	Regulatory Affairs
	Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	19-Oct-2009
Revision Date	17-Dec-2019
Print Date	17-Dec-2019
Revision Summary	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 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

End of SDS