

MATERIAL SAFETY DATA SHEET

911 Commerce Court Buffalo Grow:. IL: 60089-2375 1-800-727-4358

MSDS No. WLC3630T Effective Date January 16, 2001

SECTIO	NI NAME	24 HOUR EMERGENCY	ASSIST/	ANCE
Product	CUPRIC CHLORIDE, ANHYDROUS	CHEMTREC		$\overline{}$
Chemical	Copper (II) Chloride, Anhydrous	800-424-9300	Health	2
Synonyms	Copper (II) Chloride, Allifydrods	Day 716-226-6177	Fire	0
Formula	CuCl ₂	NFPA	Reactivity	1
Unit Size	up to 2.5 Kg.	HAZARD RATING	HMIS	
C.A.S. No.	7447-39-4	D 1 2	HIGH EXT	TREME 4

0.A.O. No. 7447 00 4	0 1 2	5 4
SECTION II INGREDIENTS OF MIXT	TURES	
Principal Component(s)	%	TLV Units
Copper (II) Chloride, Anhydrous	100%	See Section V.
WARNING! CORROSIVE! IRRITANT TO SKIN, EYES AND IN	nucous	4
MEMBRANES. HARMFUL IF SWALLOWED OR INHALED.		

SECTION III	PHYSICAL	L ÞATA		
Melting Point (°F)	498°C (928°F)	1	Specific Gravity (H ₂ O = 1)	3.386 at 20°C
Boiling Point (°F)	Not applicable.	į	Percent Volatile by Volume (%)	Not applicable.
Vapor Pressure (mm Hg)	Data not listed.	##********	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air=1)	Not applicable.			
Solubility in Water	70.6 grams per 100 i	mL. water 6	@ 20°C.	
Appearance & Odor	Yellow to brown crys	talline pow	der; no odor.	

SECTION	IV	FIRE A	ND EXPLOSION HAZAI	RD DATA	No.	
Flash Point (Method Used) Non-flammable.		ble.	Flammable Limits in Air Lower % by Volume N/A			
Extinguisher Media	Use any me	dia suitable for e	xtinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

This material will not burn. In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Combustion may produce irritating copper fumes and toxic fumes of hydrogen chloride and chlorine. Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. Copper chloride, 8, UN 2802, PG III
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

Threshold	N V Limited	Value	_	EALTH HAZA	Street, Square, Square,			An ennes	CC 51
Threonold Ellinted Value				Toxicity data: orl-rat LD50: 584 mg/kg. (Air) As copper metal: 1.0 mg/m ³ for 8 hr. working day. Copper (fume) TWA 0.2 mg/m ³ .					
Effects of	Overeyn	OSUTE		The state of the s					0.07
gastrointes SKIN: Irrita	tinal irritatio	n and vo	mitin use a	IGESTION: Coppeing. May be fatal if some sallergic reaction. IN accordination. Target	vallowed HALATI	I. <u>EYE</u> ON: C	S: Corro	sive; causes conjur	nctivitis.
Emergenc First Aid P		es	l gla an the lift IN	IGESTION: If swall asses of milk or wat hything by mouth to en wash with mild sing upper and lower IHALATION: Remot breathing, give and	er to drir an unco pap and reyelids eve to fre	ik. Cal iscious water. occasi sh air.	I physicial person. EYES: Fonally. Gold of breathing.	n immediately. Net SKIN: Flush with the Flush thoroughly with the et medical attention no is diificult, give of the second se	ver give water, th water,
SECTION	IV I			EACTIVITY D					
Stability	Unstable			Conditions to	Avoid		Yeassiva	moisture and heat	
	Stable	X	\perp						·
Incompatil (Materials	to Avoid) alı	ater, umin	potassium, sodium um.	and am	monia	vapors. C	corrosive to	
Hazardous Decompos		ducts		Decomposes a copper oxide.	it high te	mpera	tures to fo	rm hydrogen chlori	de and
Hazardous F	Polymeriza	ation		Conditions to	Avoid				
May Occur	Will	Not Occi	Not applicable.						
SECTION	0.001	X	Q	PILL OR LEA	Z DDZ	VOLL	MARC	•	
Steps to be material is	taken ir			Sprinkle lime	or soda d place i	ash on n a suit	spill to for	rm insoluble coppe ainer for proper dis	r salt. posal. Avoi
Waste Disp	osal Me	thod	The	charge, treatment, or di se disposal guidelines pose of in an approv	are intend	ed for th	ne disposal	of catalog-size quantit	ies only.
			was	ste disposal agency					
SECTION Respiration Pro				PECIAL PROT					
Specify Type)	tection	None sho n a venti	ould I lation	be needed in norma n hood or wear a NI	l laborat OSH/MS	ory har SHA-ap	ndling. If a	dusty conditions pr ist mask or respira	evail, work tor.
/entilation	Local E	xhaust		Recommended	. S	pecial		No.	
Protective Gloves			Recommended Rubber.		ther Drote	ction	No.	h a ala a a a	
Other Protective							Chemical safe	y glasses.	
quipment	GO	ggles, sr	_	k, apron, vented hoo				wash station.	
SECTION			SF	PECIAL PREC	AUTI	ONS			
Precautions t n Handling &		n		ore below 50°C, in a					
eep container tightly closed when not in use.		n use.	material is very hygroscopic. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.						
							•		

Wash contaminated clothing before reuse.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. "Hazardous Materials Industrial Standards. Printed on recycled paper.

Michael Raszeja

Revision No. 8 Date 1/16/01 Approved



MATERIAL SAFETY DATA SHEET

9701906 9702004 MSDS No. 9702006 9702009 Effective Date: September 13, 2002

SECTIO	INC	NAME	24	HOUR E	MERGE	NCY ASSISTANCE			
Product	Соррег	(II) Chloride, Anhydrous		416-984-3000 Health 3					
Chemical Synonyms	Cupric	Chloride, Anhydrous		NF	PA 3	1 Flammability 0			
Formula	CuCl ₂			HAZA	RD RATIN	Reactivity 1			
CAS No.	7447-3	9-4		LEAST 0	SLIGHT MO				
SECTIO	N II	DANGEROL	JS INGRI	EDIENTS	3				
Name					%	TLV Units			
Cupr	ic Chloride, Ar	hydrous			> 98%	TWA: 0.2 mg/m ³ as Cu fume			
	300								
DAN	GER! CORROS	SIVE!							
SECTIO	N III	PHYSICAL I	DATA						
Melting Po	int (°C)	498°C		Specific Gravity (H ₂ O = 1)	3.39			
Boiling Poi	nt (°C)	Decomposes.	t	Percent Volatile by Volume (%)		N/A			
Vapor Pres	sure (mm Hg) 0		Evaporation Rate (=1)		N/A			
Vapor Den	sity (Air=1)	N/A	N/A						
Solubility in	Water	70.6 g/100 cc wate	70.6 g/100 cc water @ 0°C						
Appearanc	The second secon		Yellow-brown crystalline powder; no odor.						
SECTIO	NIV	FIRE AND E		and the second s		TA Lower Upper			
Flash point	Non-	flammable.	Flammable L % by Volume			COWGI			
Firefighting Procedures									
		Use dry chemical, (fire-fighters should breathing apparatus	wear an app	foam, or wat ropriate mas	er spray. In k or a self-co	fire conditions, ontaining			
Flammabilit Explosion F									
				n940. 22					
		Fire or excessive he products to be prod			us decompo	sition			
TDG	Class 8 Co	errosive solid. UN 28	302						
gathered by them	and must make ind	urnished without warranty of any kin ependent determinations of suitabili es. For laboratory use only. Not for	ity and completene	ess of information	from all sources	supplement to other information to assure proper use of these materials children. Printed on recycled paper.			

Chemical Stability Incompatible with Other products No Incompatible with Other products No Potassium, sodium, nitromethane, hydrazine, sodium hypobromine and alkali metals. In presence of moisture, copper chloride can corrode metals. Hazardous Decomposition Products Reactive under what conditions Excessive moisture and heat, exposure to air. SECTION VI TOXICOLOGICAL PROPERTIES Ingestion. Inhalation. TLV TWA: 0.2 mg/m³ as Cu fume; TWA: 1 mg/m³ as Cu dust. Toxicity for animals LD50: 584 mg/kg oral-rat. Chronic effects on humans Acute effects on humans Very dangerous in case of eye contact (irritant), of inhalation. Slightly dangerous to dangerous in case of skin contact. May be fatal if swallowed. SECTION VII PREVENTIVE MEASURES Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities. Storage Avoid contact with skin and eyes. DO NOT breathe dust. DO NOT ingest. If ingested, seek medical advice immediately.	SECTION V	REACTIVITY DATA CC0510
Other products No	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 A
Decomposition Products Reactive under what conditions Excessive moisture and heat, exposure to air. Excessive moisture and heat. Excessive mide a		- Totassion, socion, nitrometriale, nyurazine, socion nypopromine and alka
Excessive moisture and heat, exposure to air. SECTION VI	Decomposition	Hydrogen chloride and copper oxide.
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SECTION IX PREPARATION OF THE MSDS	Storage Precautions Spill or leak Protective Clothing SECTION VIII Specific first aid	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities. Keep container dry. Keep in a cool place. Keep container tightly closed. Avoid contact with skin and eyes. DO NOT breathe dust. DO NOT ingest. If ingested, see medical advice immediately. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Was spill area with soap and water. Safety glasses, lab coat, dust respirator, gloves.
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SECTION V		R	EACTIVITY DATA CC0510			
Chemical	Yes	X	If no. under what conditions?			
Stability	No					
ncompatible with	Yes	X	Potassium, sodium, nitromethane, hydrazine, sodium hypobromine and alkal			
Other products	No		metals. In presence of moisture, copper chloride can corrode metals.			
Hazardous Decomposition Products	Hydrogen chloride and copper oxide.					
Reactive under what conditions	Exces	sive 1	noisture and heat, exposure to air.			
SECTION VI	at Sirial	T	OXICOLOGICAL PROPERTIES			
Route of Entry	Ingesti	on.	Inhalation.			
TLV	TWA:).2 m	ng/m³ as Cu fume; TWA: 1 mg/m³ as Cu dust.			
Toxicity for animals	LD50:	584 1	ng/kg oral-rat.			
Chronic effects on humans	Repea Target	ted o	r prolonged exposure to the substance can produce target organ damage. ns: Respiratory system, liver, kidneys.			
Acute effects on humans	Very danger	ange ous i	rous in case of eye contact (irritant), of inhalation. Slightly dangerous to in case of skin contact. May be fatal if swallowed.			
SECTION VII		P	REVENTIVE MEASURES			
Vaste Disposal	Dischar Consult	ge, t	reatment, or disposal may be subject to local laws. r local or regional authorities.			
Storage	Keep container dry. Keep in a cool place. Keep container tightly closed.					
Precautions	Avoid contact with skin and eyes. DO NOT breathe dust. DO NOT ingest. If ingested, seek medical advice immediately.					
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area with soap and water.					
rotective Clothing	Safety glasses, lab coat, dust respirator, gloves.					
ECTION VIII		FI	RST AID MEASURES			
pecific first aid neasures	advised contact eyelids contami fresh air	n: 0 by ti lense open nate	Call physician or Poison Control Center immediately. Induce vomiting only if ne appropriate medical personnel. Eye contact: Check for and remove any es. Immediately flush eyes with running water for at least 15 minutes, keeping. Seek medical attention. Skin contact: Gently and thoroughly wash the d skin with running water and non-abrasive soap. Inhalation: Move victim to not breathing, give artificial respiration. If breathing is difficult, give oxygen. to rest in a well ventilated area. Seek immediate medical attention.			
		DE	REPARATION OF THE MSDS			
ECTION IX ev. No. 3 Dat						