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CHEMICALS, INC.

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1.1 Produ	ct identifier
Trade nan	ne: <u>Copper(II)</u> chloride, anhydrous, min. 98%
CAS Num 7447-39-4 EC numbo 231-210-2 1.2 Releva	er:
1.3 Details Manufact Strem Che 7 Mulliker	s of the supplier of the safety data sheet urer/Supplier: micals, Inc. Way YPORT, MA 01950
1.4 Emerg EMERGE	formation obtainable from: Technical Department ency telephone number: NCY: CHEMTREC: + 1 (800) 424-9300
SECTIO	rmal opening times: +1 (978) 499-1600 N 2: Hazards identification
SECTIO 2.1 Classij Classifica	
SECTIO 2.1 Classif Classifica	ON 2: Hazards identification fication of the substance or mixture tion according to Regulation (EC) No 1272/2008
SECTIO 2.1 Classif Classifica	ON 2: Hazards identification fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones
SECTIO 2.1 Classif Classifica	2 PN 2: Hazards identification Fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H301 Toxic if swallowed. GHS08 health hazard
SECTIO	N 2: Hazards identification fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H301 Toxic if swallowed.
SECTIO 2.1 Classificat Classificat Acute Tox Acute Tox Muta. 2	N 2: Hazards identification Fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H301 Toxic if swallowed. GHS08 health hazard H341 Suspected of causing genetic defects.
SECTIO 2.1 Classificat Classificat Acute Tox Acute Tox Muta. 2	N 2: Hazards identification Fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H301 Toxic if swallowed. GHS08 health hazard H341 Suspected of causing genetic defects. H361 Suspected of damaging fertility or the unborn child. GHS07
SECTIO 2.1 Classificat Classificat Acute Tox Acute Tox Muta. 2 Repr. 2	N 2: Hazards identification fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H301 Toxic if swallowed. GHS08 health hazard H341 Suspected of causing genetic defects. H361 Suspected of damaging fertility or the unborn child. GHS07 2 H315 Causes skin irritation.
SECTIO 2.1 Classificat Classificat Acute Tox. Acute Tox. Muta. 2 Repr. 2 Skin Irrit.	N 2: Hazards identification fication of the substance or mixture tion according to Regulation (EC) No 1272/2008 GHS06 skull and crossbones 3 H301 Toxic if swallowed. GHS08 health hazard H341 Suspected of causing genetic defects. H361 Suspected of damaging fertility or the unborn child. GHS07 2 H315 Causes skin irritation. 2 H319 Causes serious eye irritation.

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ade name: Coppe	r(II) chloride, anhydrous, min. 98%
· Hazard pictogra	(Contd. of page 1
GHS06 GHS	508
· Signal word Da	nger
· Hazard-determ	ining components of labelling:
	, copper bichloride
· Hazard stateme	
H301 Toxic if s	vallowed.
H315 Causes sk	
H319 Causes se	rious eye irritation.
	of causing genetic defects.
	of damaging fertility or the unborn child.
	e respiratory irritation.
· Precautionary s	tatements
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P231	Handle under inert gas.
<i>P303</i> + <i>P361</i> + <i>P</i> .	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.
<i>P305+P351+P</i> .	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, a present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P422	Store contents under inert gas.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazar	ds
-	and vPvB assessment
· PBT: Not appli	
• PBT: Not appli • vPvB: Not appl	

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances • CAS No. Description
- 7447-39-4 Cupric chloride, copper bichloride
- · Identification number(s)
- EC number: 231-210-2

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.

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Trade name: Copper(II) chloride, anhydrous, min. 98%

- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 4.3 Indication of any immediate medical attention and special treatment needed
 - No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.
- 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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Safety data sheet according to 1907/2006/EC, Article 31



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	(Contd. of page 3
• 8.1 Control parameters • Ingredients with limit values that require • Additional information: The lists valid di	e monitoring at the workplace: Not required. uring the making were used as basis.
• 8.2 Exposure controls	
· Personal protective equipment:	
· General protective and hygienic measure	28:
Keep away from foodstuffs, beverages and	
Immediately remove all soiled and contant Wash hands before breaks and at the end	
Avoid contact with the eyes and skin.	
· Respiratory protection:	
self-contained respiratory protective devi	use respiratory filter device. In case of intensive or longer exposure us ce.
· Protection of hands:	
M	
Protective gloves	
	e and resistant to the product/ the substance/ the preparation. to the glove material can be given for the product/ the preparation/ th
Selection of the glove material on conside	eration of the penetration times, rates of diffusion and the degradation
• Material of gloves The selection of the suitable gloves does t	not only depend on the material, but also on further marks of quality ar
varies from manufacturer to manufacture	
varies from manufacturer to manufacture. • Penetration time of glove material	r.
varies from manufacturer to manufacture. • Penetration time of glove material	
varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be	r.
varies from manufacturer to manufacture • Penetration time of glove material The exact break through time has to be observed.	r.
 varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and ch 	r. found out by the manufacturer of the protective gloves and has to b
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varies from manufacturer to manufacture • Penetration time of glove material The exact break through time has to be observed. • Eye protection: • Tightly sealed goggles • 9.1 Information on basic physical and ch • General Information • Appearance: Form: Colour: • Odour: • Odour threshold: • pH-value:	r. found out by the manufacturer of the protective gloves and has to b nemical properties Powder Red-brown Odourless Not determined.
 varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour threshold: 	r. found out by the manufacturer of the protective gloves and has to b nemical properties Powder Red-brown Odourless Not determined.
 varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition 	r. found out by the manufacturer of the protective gloves and has to b memical properties Powder Red-brown Odourless Not determined. Not applicable. 620 °C
 varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: 	r. found out by the manufacturer of the protective gloves and has to be femical properties Powder Red-brown Odourless Not determined. Not applicable. 620 °C
 varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: 	r. found out by the manufacturer of the protective gloves and has to b femical properties Powder Red-brown Odourless Not determined. Not applicable. 620 °C Undetermined.
 varies from manufacturer to manufacture Penetration time of glove material The exact break through time has to be observed. Eye protection: Tightly sealed goggles 9.1 Information on basic physical and ch General Information Appearance: Form: Colour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling range: Flash point: 	r. found out by the manufacturer of the protective gloves and has to b memical properties Powder Red-brown Odourless Not determined. Not applicable. 620 °C Undetermined. Not applicable.
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Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
Density at 20 °C:	3.386 g/cm ³
Relative density	Not determined.
· Vapour density	Not applicable.
• Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0 %
VÕC (EC)	0.00 %
Solids content:	100.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Toxic if swallowed.
- · Primary irritant effect:
- *Skin corrosion/irritation Causes skin irritation.*
- Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity

Suspected of causing genetic defects.

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- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity
- Suspected of damaging fertility or the unborn child.
- · STOT-single exposure
- May cause respiratory irritation.
- $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
ADR, IMDG, IATA	UN2802	
14.2 UN proper shipping name		
ADR	2802 COPPER CHLORIDE	
IMDG	COPPER CHLORIDE, MARINE POLLUTANT	
IATA	COPPER CHLORIDE	
14.3 Transport hazard class(es)		
ADR, IMDG		
Class	8 Corrosive substances.	

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	(Contd. of page
Label	8
IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDĞ, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	<i>F-A</i> , <u><i>S-B</i></u>
Segregation groups	Acids
Stowage Category	A
14.7 Transport in bulk according to Anne	ex II of
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities (\widetilde{EQ})	Code: El
~	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
Transport category	3
Tunnel restriction code	E
UN "Model Regulation":	UN 2802 COPPER CHLORIDE, 8, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category H2 ACUTE TOXIC
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Technical Department.

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Trade name: Copper(II) chloride, anhydrous, min. 98%

 Contact: Technical Director Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Germ cell mutagenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 	page
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internation Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Muta. 2: Germ cell mutagenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2	
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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Muta. 2: Germ cell mutagenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2	
Muta. 2: Germ cell mutagenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 2. Specific target organ torisity (single experime) Category 2	
STOT SE 5. Specific iarget organ toxicity (single exposure) – Category 5	

