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#### **1** Identification

- · Product identifier
- Trade name: Mina Sol
- · Other means of identification: No other identifiers
- · Recommended use and restriction onuse
- · Recommended use: Industrialuses.
- Restrictions on use: Contact manufacturer/supplier

## • Details of the supplier of the Safety Data Sheet

Manufacturer/Supplier: EZ PAK, LLC P.O. BOX 185 JEFFERSON, GA 30549 (706) 367-7341 Distributor: Clear View Enterprises, LLC 451 Agnes Drive Tontitown, AR 72770 (800) 255-3924 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)

#### 2 Hazard(s) identification

#### · Classification of the substance or mixture

Met. Corr.1 H290 May be corrosive to metals.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

#### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



#### · Signal word: Danger

· Hazard statements:

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

· Precautionary statements:

- P234 Keep only in original container.
- P264 Wash thoroughly afterhandling.
- P280 Wear protective gloves/protective clothing/eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P310 Immediately call a POISON CENTER/doctor.
- P332+P313 If skin irritation occurs: Get medical advice/attention.

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(Cont'd. of p P362+P364 Take off contaminated clothing and wash it before reuse. P390 Absorb spillage to prevent material damage. P406 Store in corrosive resistant container with a resistant inner liner.	page 1)
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· Other hazards There are no other hazards not otherwise classified that have been identified.

### **3 Composition/information on ingredients**

#### · Chemical characterization: Mixtures

#### · Components:

7758-98-7	copper sulphate	10-20%
	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
	hydrochloric acid	<5%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	
Additiona	information	

#### Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

#### 4 First-aid measures

#### · Description of first aid measures

#### · After inhalation:

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

#### • After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

## · After eye contact:

Protect unharmed eye.

Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Strong irritant with the danger of severe eye injury.

Gastric or intestinal disorders when ingested.

- Thirst
- Cramp Coughing
- Vomiting.
- Diarrhea.

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#### Indication of any immediate medical attention and special treatment needed: If medical advice is needed, have product container or label at hand.

#### 5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents:

The product is not flammable.

- Use firefighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away.
- Environmental precautions Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up

Use limestone to neutralize and absorb spill. Send for recovery or disposal in suitable receptacles.

 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.

#### 7 Handling and storage

#### Handling

- · Precautions for safe handling: Use only in well ventilated areas. Avoid breathing mist, vapors, or spray. Open and handle receptacle with care. Avoid contact with the eyes and skin. Keep out of reach of children.
- Information about protection against explosions and fires: Keep respiratory protective device available.

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 $^{\rm \cdot}$  Conditions for safe storage, including any incompatibilities  $^{\rm \cdot}$  Storage

 Requirements to be met by storerooms and receptacles: Store in a cool location. Use only receptacles specifically permitted for this substance/product. Unsuitable material for receptacle: aluminum.
 Information about storage in one common storage facility: Store away from foodstuffs.

- Store away from oxidizing agents. Store away from metals.
- · Specific end use(s) No relevant information available.

#### 8 Exposure controls/personal protection

#### · Control parameters

Components w	ith limit values that require monitoring at the workplace:	
7647-01-0 hydro	ochloric acid	
PEL (USA)	Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm	
REL (USA)	Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm	
TLV (USA)	Ceiling limit value: 2.98 mg/m <sup>3</sup> , 2 ppm	
EL (Canada)	Ceiling limit value: 2 ppm	
EV (Canada)	Ceiling limit value: 2 ppm	
LMPE (Mexico)	Ceiling limit value: 2 ppm	
	A4	
	strolo	
• Exposure con	itrois ctive equipment:	
	tive and hygienic measures:	
	utionary measures for handling chemicals should be followed.	
	foodstuffs, beverages and feed.	
	fore breaks and at the end of work.	
	ntrols: No relevant information available.	
Breathing equi		
	der normal conditions of use.	
	piratory protective device in case of insufficient ventilation.	
· Protection of ha	piratory protective device when aerosol or mist is formed.	
	ands.	
Protecti	ive gloves	
	ve goves	
· Eve protection:		
Safety g	nlasses	
	9.0000	
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#### • Body protection: Acid resistant protective clothing

• Limitation and supervision of exposure into the environment Avoid release to the environment.

9 Physical and chemical properties		
· Information on basic physical a	nd chemical properties	
· Appearance:		
Form:	Liquid	
Color:	Blue	
· Odor:	Mild	
· Odor threshold:	Not determined.	
· pH-value:	<5.0	
<ul> <li>Melting point/Melting range:</li> </ul>	Not determined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	Not determined.	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
<ul> <li>Explosion limits</li> </ul>		
Lower:	Not determined.	
Upper:	Not determined.	
<ul> <li>Oxidizing properties:</li> </ul>	Non-oxidizing.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density:	1.09	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
<ul> <li>Solubility in / Miscibility with</li> </ul>		
Water:	Soluble.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
<ul> <li>Other information</li> </ul>	No relevant information available.	

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#### 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
   No decomposition if used and stored according to appeal
- No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with oxidizing agents. Reacts with alkali (lyes). Corrosive action on metals.
- · Conditions to avoid Store away from oxidizing agents.
- Incompatible materials
   Oxidizing agents
   Alkalis
- Hazardous decomposition products Toxic metal oxide smoke Chlorine compounds Sulfur oxides (SOx) Copper oxides.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- ATE (Acute Toxicity Estimate)
- Oral LD50 >2000 mg/kg

#### 7758-98-7 copper sulphate

- Oral LD50 300 mg/kg (rat)
- · Primary irritant effect:
- On the skin: Irritant to skin and mucous membranes.
- $\cdot$  On the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Based on available data, the classification criteria are not met.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

#### • NTP (National Toxicology Program):

None of the ingredients are listed.

#### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

- · Probable route(s) of exposure:
- Ingestion.
- Inhalation.

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Eye contact. Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Irritating to eyes and skin.

Causes serious eye damage.

May be harmful if swallowed.

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- $\cdot$  STOT-single exposure: Based on available data, the classification criteria are not met.
- $\cdot$  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.

#### **12 Ecological information**

- · Toxicity
- · Aquatic toxicity Toxic to aquatic life with long lasting effects.
- · Persistence and degradability No relevant information available.
- · Bio accumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- · Additional ecological information
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Other adverse effects No relevant information available.

#### **13 Disposal considerations**

#### · Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

#### · Uncleaned packaging's

• **Recommendation:** Disposal must be made according to official regulations.

· UN-Number · DOT, ADR, IMDG, IATA	UN1789	
· UN proper shipping name		
· DOT, IATA	Hydrochloric acid solution	
· ADR, IMDG	HYDROCHLORIC ACID SOLUTION	

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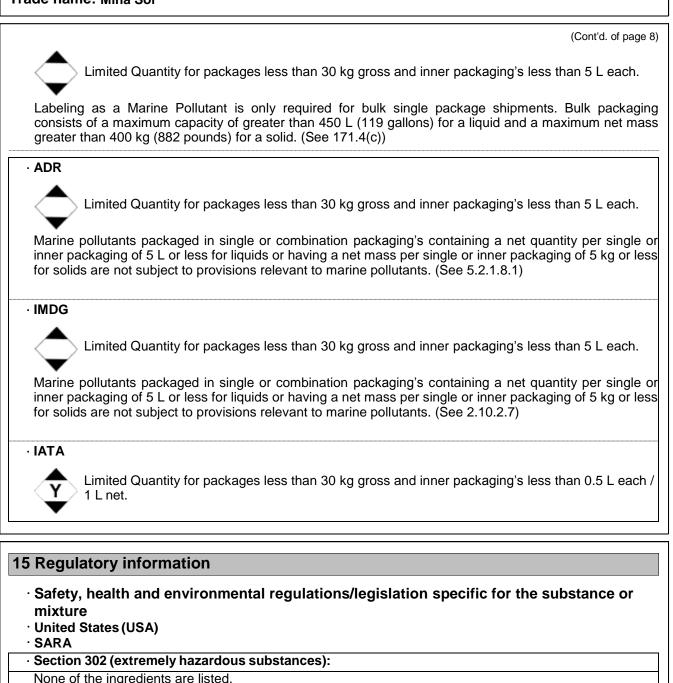
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	(Cont'd. of page	7)
· Transport hazard class(es)		
·DOT		
· Class	8 Corrosive substances	
· Label	8	
· ADR		
· Class	8 (C1) Corrosive substances	
· Label	8	
· IMDG, IATA		
· Class	8 Corrosive substances	
· Label	8	
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	111	
· Environmental hazards	Product contains environmentally hazardous substances: coppersulphate	3
· Marine pollutant:	substances. copper submate	
Yes		
<ul> <li>Special precautions for user</li> </ul>	Warning: Corrosive substances	
· Danger code (Kemmler):     · EMS Number:	80 F A S B	
· Segregation groups	F-A,S-B Acids	
• Transport in bulk according to Annex II of		$\neg$
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		1
·DOT	See 173.154(d) for corrosive exceptions.	
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· Section 355 (extremely hazardous substances):

- 7647-01-0 hydrochloric acid
- · Section 313 (Specific toxic chemical listings):
- 7758-98-7 copper sulphate
- 7647-01-0 hydrochloric acid

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	cause developmental toxicity.
None of the ingredient	
Carcinogenic catego	
EPA (Environmental I	
None of the ingredient	s are listed.
IARC (International A	gency for Research on Cancer):
None of the ingredient	s are listed.
NIOSH-Ca (National I	nstitute for Occupational Safety and Health):
None of the ingredient	s are listed.
Other information	2
	sed on our present knowledge. However, this shall not constitute a guarantee for an res and shall not establish a legally valid contractual relationship.
Date of preparation /	last revision September 25, 2017 / -
IMDG: International Maritim DOT: US Department of Tra IATA: International Air Trans CAS: Chemical Abstracts St LC50: Lethal concentration, LD50: Lethal dose, 50 perce NIOSH: National Institute fo OSHA: Occupational Safety TLV: Threshold Limit Value PEL: Permissible Exposure REL: Recommended Expos Met. Corr.1: Corrosive to me Acute Tox. 4: Acute toxicity Skin Corr. 1B: Skin corrosio	sport Association ervice (division of the American Chemical Society) , 50 percent ent or Occupational Safety and Health y & Health Administration Limit sure Limit etals – Category 1 – Category 4
Eye Irrit. 2A: Serious eye da STOT SE 3: Specific target <b>Sources</b> Website, European Ch	

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Proposition 65 (California)
 TSCA(Toxic Substances Control Act)
 Chemicals known to cause cancer:
 None of the ingredients are listed.

None of the ingredients are listed.

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

· Chemicals known to cause reproductive toxicity for males:

· Chemicals known to cause developmental toxicity:

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Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

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