

**COPPER HARBOR COMPANY, INC.****Safety Data Sheet**
Glasflux**SECTION 1: Identification****1.1 Product identifier**

Product name	Glasflux
Product number	Glasflux
Brand	Glastar Corporation
Substance name	Zinc chloride
CAS no.	7646-85-7

1.4 Supplier's details

Name	Copper Harbor Company, Inc.
Address	2300 Davis Street San Leandro, CA 94577 USA
Telephone	510-639-4670
Fax	510-639-4671
email	info@CopperHarbor.com

1.5 Emergency phone number(s)

1-800-451-8346

SECTION 2: Hazard identification**2.1 Classification of the substance or mixture**

- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Acute toxicity (chapter 3.1), Cat. 4

2.2 GHS label elements, including precautionary statements**Pictogram****Signal word****Danger**

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Hazard statement(s)

H410	Very toxic to aquatic life with long lasting effects
H400	Very toxic to aquatic life
H314	Causes severe skin burns and eye damage
H302	Harmful if swallowed
H335	May cause respiratory irritation

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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/...
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local regulations

2.3 Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance name	Zinc chloride
CAS no.	7646-85-7
Formula	ZnCl ₂
Molecular weight	136.3
Other names / synonyms	Zinc chloride (ZnCl ₂); ZINCCHLORIDE; Zinc chloride

Hazardous components

1. Zinc chloride

Concentration	35 - 45 %
Other names / synonyms	Zinc chloride (ZnCl ₂); ZINCCHLORIDE
EC no.	231-592-0
CAS no.	7646-85-7
Index no.	030-003-00-2

- Acute toxicity (chapter 3.1), Cat. 4
- Skin corrosion/irritation (chapter 3.2), Cat. 1B
- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1
- Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 1

H302	Harmful if swallowed
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H314 Causes severe skin burns and eye damage
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

2. WATER

Concentration 35 - 44 %

Other names / synonyms DIHYDROGEN OXIDE; h2o; HYDROGEN OXIDE; ICE; SNOW; STEAM;
WATER, DISTILLED

CAS no. 7732-18-5

3. Proprietary

Concentration 1 - 10 %

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Rinse with plenty of water. Get medical attention if irritation develops and persists. Wash off with soap and plenty of water. Get medical attention if symptoms occur.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

SECTION 6: Accidental release measures

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

1. Zinc chloride fume (CAS: 7646-85-7)

PEL (Inhalation): 1 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

2. Zinc chloride fume (CAS: 7646-85-7)

PEL (Inhalation): 1 mg/m³, (ST) 2 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

3. Zinc chloride fume (CAS: 7646-85-7)

REL (Inhalation): 1 mg/m³, (ST) 2 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

4. Zinc chloride fume (CAS: 7646-85-7)

REL (Inhalation): 1 mg/m³, (ST) 2 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

5. Zinc chloride fume (CAS: 7646-85-7)

PEL (Inhalation): 1 mg/m³, (ST) 2 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

6. Zinc chloride fume (CAS: 7646-85-7)

PEL (Inhalation): 1 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

8.3 Individual protection measures, such as personal protective equipment (PPE)

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Thick solution
Odor	
Odor threshold	
pH	
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Upper/lower explosive limits	
Vapor pressure	
Vapor density	
Relative density	
Solubility(ies)	
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

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SECTION 10: Stability and reactivity

SECTION 11: Toxicological information

Information on toxicological effects

Additional information

From NIH:

LD50 oral rat 350 mg/kg

[Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 3421]**PEER REVIEWED**

LD50 Rat ip 58 mg/kg

[Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 3421]**PEER REVIEWED**

LD50 Mouse oral 350 mg/kg

[Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 3421]**PEER REVIEWED**

LD50 Mouse ip 24 mg/kg

[Lewis, R.J. Sax's Dangerous Properties of Industrial Materials. 9th ed. Volumes 1-3. New York, NY: Van Nostrand Reinhold, 1996., p. 3421]**PEER REVIEWED**

SECTION 12: Ecological information

SECTION 13: Disposal considerations

SECTION 14: Transport information

DOT (US)

UN Number: 1840

Class: 8

Packing Group: III

Proper Shipping Name: Zinc Chloride Solution

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Zinc chloride

CAS number: 7646-85-7

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New Jersey Right To Know Components

Common name: ZINC CHLORIDE

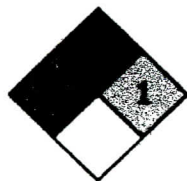
CAS number: 7646-85-7

Pennsylvania Right To Know Components

Chemical name: Zinc chloride

CAS number: 7646-85-7

NFPA Rating



SECTION 16: Other information