



UNCHING INDUSTRY CO., LTD.

109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen, Samutsakhon 74110.

Tel: 02 - 810 - 1345 Fax: 02 - 810 - 1346

Material Safety Data Sheet

PC 681

1. Chemical product and company identification

Product name : PC-681 CUPRIC CHLORIDE ENHANCER
 Manufacturer : UNCHING INDUSTRY CO., LTD.
 109/20 Moo. 9 Setthakit 1 Rd., T.Suanluang,
 A. Krathumbaen, Samutsakhon, 74110. (Thailand)
 Phone number : 0-2810-1616 , 0-2810-1345
 Fax number : 0-2810-1346

2. Composition/information on ingredients

Chemical name	(W/W%)	CAS NUMBER
Sodium Salt	<30	7775-09-9
Hydrochloric Acid	< 5	7647-01-0

3. Physical and chemical properties

Solubility in water : Complete
 Boiling point : >100°C
 Odor : Odorless
 Form : Liquid
 Color : No

4. Hazard identification

Inhalation	: Vapors and mist will cause respiratory irritation
Eye contact	: May cause eye irritation
Skin contact	: May cause skin irritation
Ingestion	: May cause irritation of the mucous membrane and gastrointestinal irritation

5. First aid measures

Inhalation	: Remove to fresh air. If not breathing, give artificial Respiration. If breathing is difficult, give oxygen. Call a Physician.
Skin contact	: Immediately wash skin with soap and copious amounts of water. Consult a physician.
Eye contact	: Immediately flush eyes with copious amounts of water for at least 15 minutes. Consults a physician.
Ingestion	: If swallowed, do not induce vomiting. Give large amounts of water. Never give anything by mouth to an Unconscious person. All cases of ingestion should be report to a poison control center immediately. Contact a physician.

6. Fire fighting measures

Flash point	: Non combustible
Unusual hazards	: None
Extinguishing media	: Chemical foam or dry chemical
Special fire fighting instruction	: Wear self contained breathing apparatus

7. Accidental Release Measures

Safety Precaution	: Avoid breathing vapors or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Disposal information	: Dike the spill. Soak up with absorbent material. Do not allow Spilled material to get into sewer of Waterways or low areas. Neutralize with Sodium Bicarbonate.

8. Handling and storage

Store in well ventilated area. Keep container tightly closed. Store away from Alkaline materials.

9. Exposure controls/Personal protection

Procedure and precautionary measures : Use only with adequate. Keep container tightly closed.

Protective equipment/clothing:

Eye / face : Use full face shield.

Hands : Use latex or neoprene gloves.

10. Stability and reactivity

Instability : Stable

Incompatibility : Strong acid and oxidizers

Decomposition : May evolve dioxide and oxides of nitrogen

Polymerization : Will not occur

11. Toxicological information

Skin irritation

Respiratory irritation

Coughing

Eye irritation

Mucous membrane irritation

URL-RAT LD₅₀ : 4950 mg/kg as Sodium Chlorate

12. Ecological information

None Established

13. Disposal considerations

Aquatic toxicity : None established
Waste disposal : Treatment, storage, transportation and disposal must be in accordance with local, state, and federal Regulations.

14. Transportation information

Dot Shipping class : Sodium Chlorate Solution
Hazard class : Oxidizer
U.N. number : 2428
Packing Group :
Label (s) Required : Oxidizer
HFLPA Rating : 1,0,2,D (Health, flammability, reactivity, personal Protection)

15. Regulatory information

Avoid breathing vapors or mist. Avoid contact with eyes, skin, and clothing
Wash thoroughly after handling.

16. Other information

There are no components which are listed by OSHA as a carcinogen.

Exposure limits : OSHA ACGIH
Sodium Chlorate : None
