

MATERIAL SAFETY DATA SHEET

Code No. 012015	Date	Issued: 2007/01/01 page 1/3	
1. Trade Name	Chiba-A		
	公 司 名:千葉工場		
2. Manufacture's	地 址:東莞市沙田鎮楊公洲工業區		
Information	電話號碼: 0769-88869316~7 傳真: 0769-88869308		
	Prepare: Technical development dept.		
3. Product Identification	 General use: Brightener for sulfuric acid copper plating. Division: □Chemical, ☑Mixture Hazardous Ingredients 		
	Chemical name Contents(%)	CAS No.	
	Sulfuric acid 2.7	7664-93-9	
	· Others material: Copper sulfate, Organic sulfure	e compound, etc.	
	· Classification: Acute toxicity substance by Japan Chemical Industry Association.		
4 11 1	· Most important hazards: When swallow, danger will increase by vomit and have		
4. Hazards	stomachache. If eye will contact with this material, firstly corrosive and will		
Identification	blind person.		
	Environmental effects: This material will be strong acid and not drain		
	against environmental place.		
	In the case of		
5. First Aid Measures	• Eye contact: Immediately flush eyes thoroughly with running water for more than 15 minutes and seek medical attention. If cleaning time is delay and not complete, harm will happen again and therefore, contact medical attention certainly.		
	· Skin contact: Immediately flush exposed skin with lots of running water. By the condition of a patient, seek medical attention.		
	 Inhalation: In generally, inhalation will be not arise by regular handling condition. If the case of halation, remove the victim to fresh air place and will gargle. If any adverse effects are noted, seek medical attention. Ingestion: When swallow, danger will increase by vomit due to corrosive and therefore, large milk or water will be add in stomach and will dilute and clean for stomach, However, never give anything by month to an unconscious victim. Immediate medical attention is necessary. 		
6.Fire Fighting Measures	Extinguishment: This material will nonflammable and therefore, move Safety place. Direct water spraying will not use due to the strong acid liquid will scatter and fire fighting draining water will be treating by regulation. Fire fighting operation will use protective safety wear, etc		
7 A 1 1	Extinguishing media: Dry chemical, water, alcohol re		
7. Accidental	Personal precautions: Stretch a rope around spilled area and keep people will		
Release	away. Recovery will use for protective spectacles, gloves, etc. and will work from		
Measures	windward.		

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	· Environmental precautions:Stop the flow with sand and transfer the liquid	
8. Accidental	into the plastic container and seal tightly. Small case of recovery at the	
Release	material will absorb by earth and sand. Neutrahze the remainder with soda	
Measures	ash or 10% solution of lime and flush with water. High concentration material	
	will not draining for environmental place.	
	· Prevention of user exposure:Workman will attend for wear protection and	
	avoid contact.	
9. Handling &	· Storage conditions: Keep continuous tightly closed and stored at a	
Storage	temperature (10~25°C) and omit of high temperature, direct sunshine.	
	· Incompatibility: Strong alkaline, cyanogens, metal.	
	· Packaging materials:Plastics, plastic film.	
	· Concentration control:No regulation.	
10. Exposure	· Concentration acceptable: TLV-TWA 2ppm (as H ₂ SO ₄ , ACGIH 1999).	
Controls /	• Equipment: Tap water, eye wash stations, and safety shower should be immediately accessible. The location of these should be shown in a noticeable	
Personal		
Protectio	place.	
110100110	Protective materials:Glasses(goggles), rubber gloves, rubber boots, rubber or vinyl	
	cloth.	
	· Appearance: Violet liquid.	
11. Physical &		
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Chemical	· Odor: Weakly special odor.	
Properties	· Solubility in solvent:Soluble in water.	
	· Volatility:None. · Flash point:None.	
	· Inflammabihty:None.	
	· Stability:Stable at regular handling condition.	
12. Stability&	· Reactivity:Product will corrosive and dissolves almost kinds of metal and will happen	
Reactivity	to hydrogen gas of catch fire and explosion.	
	· Hazardous decomposition products: Sulfur oxide (but after evaporation, strong heating	
	will decompose.)	
	· Acute toxicity of main components.	
13. Toxicological	LD ₅₀ (as Sulfuric acid):2140 mg/kg (Oral rat)	
Information	· Human effects	
	Local effects:Contact part of material will become inflamed (corrosive).	
	Sensitization: Not available. Chronic toxicity: Not available.	
	· Nitrogen content:Less than 0.1% · Phosphorus contents:Not include.	
14. Ecological	· COD _{Mn} : Not determined. · BODcontent: Not determined.	
Information	· Biodegradability are no good for basic dyes.	
	· Waste from residues: Waste should be taken by a licensed professional waste	
	company, or waste will burn by most proper equipment. On the other hand,	
	dispose after the following treatment.	
	①Dilute the waste with water several times.	
15. Disposal	②Neutralize with solution of slaked lime and will be remove as precipitate.	
Consideration	③Using by activated carbon treatment and COD are confirmed for quantity in	
Constueration	standard limits and draining.	
	Contaminated packaging: The disposal containers should be thoroughly	
	washed and burned or disposed in accordance with local environmental	
	control regulations. The effluent generated in the above mentioned treatment	
	should flushed into an effluent treatment plant.	

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	· Transport measure and conditions: Container is tightly closed and be careful for	
16. Transporration	damage and leakage of product. Apply the related transportation laws and	
Information	regulations in your country.	
	· U. N. Classification: Class8(Corrosive substance).	
	· U. N. Number: 1760	
17. Regulatory	· The product should be treated in accordance with all applicable laws and	
Information	regulations in your country.	
	This product is produced by special use and therefore, please consider not use	
18. Other	expect our company's catalogs. This Material Safety Data is based on	
Information	information which is, to the best of our knowledge and belief, accurate. Since the	
	hazards information given here is hmited and the conditions of use and	
	handling are beyond our control, no warranty is given. Careful handling is	
	always required.	