



山東天成化工有限公司

Shandong Tiancheng Chemical Co., Ltd.

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name	3-Chloro-2-Hydroxypropyltrimethyl Ammonium Chloride		
Alias	CHPTAC, S-quata 889 , Quat 188, PTAC 1881, CTA 1881, Quab 188, CATIONIC REAGENT		
CAS No.	3327-22-8	HS code	29239000
Company	Shandong Tiancheng Chemical Co., Ltd.		
Address	66 West of Beizhan Rd, Yanzhou, China	Zip code	272100
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Section 2: Composition/Information on Ingredient

Formula	$C_6H_{15}NO\ CL_2$		
Chemical name	CAS No.	Content	
3-Chloro-2-Hydroxypropyl Trimethyl Ammonium Chloride	3327-22-8	≥69%	
Water	7732-18-5	≤31%	

Section 3: Hazards Identification

Risk Category	Non hazardous chemical
Health effect	Irritable to eyes, skin and respiratory tracts.
Environmental hazards:	No harm

Section 4: First Aid Measures

Skin exposure:	Use soap to help assure removal.
Eye contact:	Wash with copious quantities of water.
Inhalation:	Wash with copious quantities of water and seek medical attention.

Section 5: Fire Fighting Measures

Extinguishing	Alcohol-resistant foam, dry chemical, carbon dioxide etc.
Fire fighting procedures	Fire fighters must wear self-contained breathing apparatus, full protective clothing when extinguishes fire. Keep the containers cool and prevent rupture with water at the scene.
Conditions to avoid	Keep away from fire, strong oxidant, strong acid, strong base etc
Hazardous Combustion Products	Carbon monoxide, carbon dioxide

Section 6: Accidental Release Measures

If the product is not contaminated, put it in a clean container. If the product is contaminated, put it in a container and make appropriate disposal. Once accidental spills refer to section 8, personal protective apparatus, and general health habits.

Section 7: Handling and Storage

General	Store in shady and dry places, 5-35°C. Tightly close the opening of containers if not used.
Attention	Pay attention to moisture. Avoid storing products in incompatible materials nearby. Refer to section 10. Away from fire and heat.

Section 8: Exposure Controls/Personal Protection

Engineering controls	Pay attention to ventilation, airtight operation.
General Health Habit	Avoid its contact with eyes, skin and clothing. Eat and drink after thoroughly clean.
Personal Protective Apparatus	Wear waterproof gloves and proper protective clothing.
Maintenance/Protective measures	Completely isolate and clean all equipment and pipes before maintenance.

Section 9: Physical and Chemical Properties

Product Name	3-Chloro-2-Hydroxypropyltrimethyl Ammonium Chloride
Item	Description
Appearance	Colorless liquid
Active content / %	≥69.0
DCH content %	≤10×10 ⁻⁴
ECH content / %	≤5×10 ⁻⁴
pH value (10% water solution)	5.0-7.0

Section 10: Stability and Reactivity

Decomposition product	No
Hazardous Polymerization	No Hazardous Polymerization under specified operation and storage.

Stability	Stable under specified operation and storage.
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Section 11: Toxicological Information

Carcinogenicity	National Toxicology Program does not classify it as carcinogen, Occupational Safety and Health Administration does not require it as a carcinogen, IARC does not assess it as carcinogen.	
Effect on human	It will not cause skin irritation or skin sensitization after the human patch test.	
Effect on animals	Acute toxicity	Rat oral LD50 : > 5g/k g
	Stimulus	No
	Sub acute	No
	Chronic toxicity	No
	Sensitization	No
	Teratogenicity	No

Section 12: Ecological Information

Ecotoxicity	No
Enrichment	No

Section 13: Waste Disposal Measures

Waste disposal	Recommend to stack in solid or hazardous waste device. Avoid dust hazards during disposal and transportation. Load them into container before handling, exposure and protective measures to be taken when exposed. To ensure there is no quantitative restrictions to process bulk or semi-bulk waste. Comply with federal and local laws.
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Section 14: Packing and Transformation

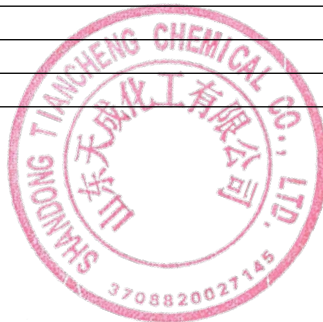
Not restrict to DOT rules	
Packing	This product is packed by polyethylene plastic barrel or polyethylene plastic square box barrel with net weight 250kg / barrel or 1000 kg / barrel respectively.
Transportation	According to IMDG / IMO code, it doesn't belong to dangerous material. Avoid frozen and sunlight during transportation
Storage	Avoid storage at high temperature or below freezing. The optimum storage temperature is 5-35 °C. Compliance with the above conditions, the product is valid for 12 months since the production date. If it exceeds the storage period, recheck by indicator; if the test results meet the standards, it can still be used.

Section 15: Regulatory Information

Chemical list	TSCA is inclusive of the product ingredients
SARA Title III—302/304:	No harm to health
SARA Title III—311&312:	No harm to body
SARA Title III—313:	Not contain any chemical composition of SARA Title III—313 provision
CERCLA:	Not contain any hazardous chemical composition under the regulation of Comprehensive Environmental Response, Compensation and Liability.
RCRA:	Not classified as hazardous chemical by 40CFR261.33; No hazardous properties listed by 40CFR261,Subpart C

Section 16: Other Information

HMIS probibility		
Health	1	ECLH
Flammability	0	Min risk
Reactivity	0	Min risk



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