

Revision number: 1 Revision date: 07/06/2018

TCI AMERICA SAFETY DATA SHEET

	Sodium Hypochlorite Pentahydrate	
oduct code:	S0939	
oduct use: strictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: CI America 2211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: 1-800-423-8616 / +1-503-283-1681 fax: 1-888-520-1075 / +1-503-283-1987 -mail: ales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Securi +1- 503-286-7624
HAZARD(S) IDENTIFICATION		
SHA Haz Com: CFR 1910.1200: HMIS 2015:	Eye Damage/Irritation [Category 1] Oxidizing Solids [Category 2] Corrosive to Metals [Category 1] Aquatic Hazard (Acute) [Category 1] Aquatic Hazard (Long-Term) [Category 1] Skin Corrosion/Irritation [Category 1B]	
gnal word:	Danger!	
azard Statement(s):	May intensify fire; oxidizer May be corrosive to metals Causes severe skin burns and eye damage Very toxic to aquatic life Very toxic to aquatic life with long lasting effects	S
ctogram(s) or Symbol(s):	\sim	
ecautionary Statement(s):		
ecautionary Statement(s): [Prevention]	precaution to avoid mixing with combustibles. K mists. Avoid release to the environment. Wash protective gloves, protective clothing, face prote	Keep only in original container. Do not breathe dusts hands and face thoroughly after handling. Wear ection.
ecautionary Statement(s): [Prevention] [Response]	precaution to avoid mixing with combustibles. K mists. Avoid release to the environment. Wash protective gloves, protective clothing, face prote If swallowed: Rinse mouth. Do NOT induce von skin (or hair): Take off immediately all contamin Immediately call a poison center or doctor. Was Remove person to fresh air and keep comfortat doctor. If in eyes: Rinse cautiously with water for and easy to do. Continue rinsing. Immediately of material damage. Collect spillage.	ection. niting. Immediately call a poison center or doctor. If o hated clothing. Rinse skin with water or shower. sh contaminated clothing before reuse. If inhaled: ble for breathing. Immediately call a poison center or or several minutes. Remove contact lenses, if preser call a poison center or doctor. Absorb spillage to pre-
ecautionary Statement(s): [Prevention]	precaution to avoid mixing with combustibles. K mists. Avoid release to the environment. Wash protective gloves, protective clothing, face prote If swallowed: Rinse mouth. Do NOT induce von skin (or hair): Take off immediately all contamin Immediately call a poison center or doctor. Was Remove person to fresh air and keep comfortat doctor. If in eyes: Rinse cautiously with water for and easy to do. Continue rinsing. Immediately c material damage. Collect spillage. Store in corrosive resistant bottle or metal conta	Keep only in original container. Do not breathe dusts hands and face thoroughly after handling. Wear ection. niting. Immediately call a poison center or doctor. If o hated clothing. Rinse skin with water or shower. sh contaminated clothing before reuse. If inhaled: ole for breathing. Immediately call a poison center or or several minutes. Remove contact lenses, if preser

[HNOC]

Substance/mixture:	Substance
Components:	Sodium Hypochlorite Pentahydrate
Percent: CAS RN: Molecular Weight: Chemical Formula:	10022-70-5 74.44(Anh) NaClO.₅H2O

4. FIRST-AID MEASURES

Description of first aid measures	
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Symptoms/effects:	
Acute:	Pain. Redness.
Delayed:	No data available
Indication of any immediate medical a Not available. Notes to physician: No data available	ttention:
5. FIRE-FIGHTING MEASURES	

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards:	Explosion risk in case of fire. Fight fire remotely due to the risk of explosion. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. These products include: Carbon oxides Halogenated compounds Metallic oxides WARNING: Highly toxic HCI gas is produced during combustion.
Advice for firefighters:	Wear self-contained breathing apparatus if possible. Combat fire from a sheltered position.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: Prevention of secondary hazards:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
7. HANDLING AND STORAGE	
Precautions for safe handling:	 Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Keep away from heat. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing. May develop pressure. Open carefully. Don't leave used equipment or rag. This product may ignite if it is left stuck on combustibles such as paper, rags, etc. Use corrosive resistant equipment.
Conditions for safe storage, including a	ny incompatibilities
Storage conditions:	Keep container tightly closed. Store in a freezer. Store under inert gas. Protect from moisture. Store locked up. Be sure not to give the container unexpected impacts, such as falling down or falling off. Store away from combustibles. Heat-sensitive Light-sensitive Hygroscopic
Packaging material:	Comply with laws. Keep only in original container.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder Pale yellow - Yellow No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	27°C (Freezing point) (81°F) No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas): Solubility(ies): [Water] [Other solvents]	No data available No data available Very soluble No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available

10. STABILITY AND REACTIVITY

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. May cause fire or explosion on contact with reducing agents or mixing with combustibles. Heat, Shock, Friction, Light Oxidizing agents, Acids, Reducing agents, Combustibles, Heavy metals Hydrogen chloride

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11. TOXICOLOGICAL INFORMATION

RTECS Number: NH3486800

Acute Toxic No data avai					
Skin corros No data avai	on/irritation: lable				
Serious eye No data avai	damage/irritation: lable				
Respiratory No data avai	or skin sensitization: lable				
Germ cell m mmo-smc 10	utagenicity: ppm/2H		dnd-hmn-leu 0.5 pj	pm/1H	
Carcinogen No data avai					
IARC:	Group 3 (Not classifiable as carcinogenic to humans).	NTP:	No data available	OSHA:	No data available
Reproductiv No data avai					
Target orga	n(s):	No data available			
12. ECOLO	OGICAL INFORMATION				
Fcotoxicity					
Ecotoxicity: Fish:		No data available			
Fish:		No data available No data available			
Fish:	acea:				
Fish: Crust Algae	acea: ::	No data available No data available			
Fish: Crust Algae Persistence	acea: :: / degradability:	No data available No data available No data available			
Fish: Crust Algae Persistence Bioaccumul	acea: :: / degradability: ative potential(BCF):	No data available No data available			
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Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a	acea: :: / degradability: ative potential(BCF): :oil Pow: dsorption (Koc):	No data available No data available No data available No data available No data available No data available			
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Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry	acea: -: -: -: -: -: -: -: -: -: -	No data available No data available No data available No data available No data available No data available No data available	s if possible. It is the generator	r's responsibility to c	omply with Federal, State and
Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry	acea: -: -: -: -: -: -: -: -: -: -	No data available No data available No data available No data available No data available No data available No data available Recycle to process Local rules and res	gulations. Consult an expert of	f disposal. If it mixes	with flammable solvents, it may
Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry	acea: -: -: -: -: -: -: -: -: -: -	No data available No data available	gulations. Consult an expert of ction is intended to provide ass	f disposal. If it mixes sistance but does no	with flammable solvents, it may t replace these laws, nor does
Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry	acea: -: -: -: -: -: -: -: -: -: -	No data available No data available Codata available	gulations. Consult an expert of ction is intended to provide ass ordance with this section ensu	f disposal. If it mixes sistance but does no ire regulatory compli	with flammable solvents, it may t replace these laws, nor does ance according to the law. US EPA
Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry	acea: -: -: -: -: -: -: -: -: -: -	No data available No data available Codal rules and re catch fire. This set compliance in accu guidelines for Iden	gulations. Consult an expert of ction is intended to provide ass ordance with this section ensu tification and Listing of Hazard	f disposal. If it mixes sistance but does no ire regulatory compli dous Waste are liste	with flammable solvents, it may t replace these laws, nor does ance according to the law. US EPA d in 40 CFR Parts 261. The
Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry <u>13. DISPO</u> Disposal of	acea: : / degradability: ative potential(BCF): oil Pow: dsorption (Koc): /'s Law (PaM ³ /mol): <u>SAL CONSIDERATIONS</u> product:	No data available No data available Compliance in acc guidelines for Iden product should not	gulations. Consult an expert of ction is intended to provide ass ordance with this section ensu itification and Listing of Hazard t be allowed to enter the enviro	f disposal. If it mixes sistance but does no re regulatory compli dous Waste are liste conment, drains, wate	with flammable solvents, it may t replace these laws, nor does ance according to the law. US EPA d in 40 CFR Parts 261. The
Fish: Crust Algae Persistence Bioaccumul Mobility in s Log F Soil a Henry	acea: : / degradability: ative potential(BCF): oil Pow: dsorption (Koc): /'s Law (PaM ³ /mol): <u>SAL CONSIDERATIONS</u> product: container:	No data available No data avai	gulations. Consult an expert of ction is intended to provide ass ordance with this section ensu tification and Listing of Hazard	f disposal. If it mixes sistance but does no re regulatory compli dous Waste are liste conment, drains, wate opty containers.	with flammable solvents, it may t replace these laws, nor does ance according to the law. US EPA d in 40 CFR Parts 261. The er ways, or the soil.

14. TRANSPORT INFORMATION

<u>DOT (US)</u> UN number: UN3212	Proper Shipping Name: Hypochlorites, inorganic, n.o.s	Class or Division: 5.1 Oxidizer	Packing Group:	
IATA UN number: UN3212	Proper Shipping Name: Hypochlorites, inorganic, n.o.s	Class or Division: 5.1 Oxidizer	Packing Group: II	
IMDG UN UN3212 numb er:	Proper Shipping Name: Hypochlorites, inorganic, n.o.s	Class or Division: 5.1 Oxidizer	Packing Group: II	
EmS number:	F-H, S-Q			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardo	ous substan	ce and Reportable Quantity:	
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulations	<u>s</u>		
State Right-to-Kn	low		
Massachuse	tts	Listed	
New Jersey		Not Listed	
Pennsylvania	a	Listed	
California Propos	sition 65:	Not Listed	
Other Information	<u>n</u>		
NFPA Rating:			HMIS Classification:
Health:	2		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		

International Inventories

16. OTHER INFORMATION

Revision date: 07/06/2018

Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

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