Safety Data Sheet

Section 1 - Product Information

Product Name: Pro-Con SYSTEMS turquoise 4		**Supplier:**	Intercon Chemical Company
Product Code Number: TUR4	**Information Phone:** 800-323-9218	**Address:**	1170 Central Industrial Dr
Product use: Hospital grade disinfectant	**Emergency Contact:** CHEMTREC 1-800-424-9300		St. Louis, MO 63110

Section 2 - Hazard Identification

GHS Classification: Skin corrosion: Category 1A , Serious eye damage: Category 1, Short-term (acute) aquatic hazard: Category 1, Long-term (chronic) aquatic hazard: Category 2

Section 2.1 - Label Elements

Hazard Pictograms:

Signal Word: Danger

Hazard Statements:

H314 - Causes severe skin burns and eye damage.
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:
P264 - Wash skin thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
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.
P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363 - Wash contaminated clothing before reuse.
P391 - Collect spillage.
Storage:
P405 - Store locked up.
Disposal:
P501 - Dispose of contents/container in accordance with local regulation.

Section 3 - Composition

Active ingredient	CAS #	Percent w/w
Tetrasodium ethylenediaminetetraacetate	64-02-8	>= 5 - < 10
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	68424-95-3	>= 3 - < 5
Nonylphenol branched ethoxylated	127087-87-0	>= 2.5 - < 3
Alkyl (C12-16) dimethylbenzyl ammonium chloride	68424-85-1	>= 1 - < 2.5
Ethanol	64-17-5	>= 1 - < 3

Section 4 - First Aid Measures

In case of skin contact: After contact with skin, wash immediately with plenty of soap and water. Consult a physician.

In case of eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Call a physician immediately.

If swallowed: Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

If inhaled: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Section 5 - Fire and Explosion Hazard Data

Flash Point:	Limits	Extinguishing Media:	
NE	**LEL: NE**	Dry powder, water spray or foam	**Special Fire Fighting Procedures:** Avoid exposure to fumes or vapors. Wear self-contained positive pressurized breathing apparatus MSHA/NIOSH approved or equivalent to maintain TLV. **UNUSUAL FIRE & EXPLOSION HAZARD:** Use water spray to cool adjacent fire exposed containers. Product may splatter if temperature exceeds boiling point.
	UEL: NE		

Section 6 - Accidental Release Measures

Don appopriate PPE. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. Floors may be slippery. Use care to avoid falls. Use respirator when performing operations involving potential exposure to vapor of the product.

Section 7 - Handling and Storage

Take precautionary measures against static discharges. Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms. Keep container tightly closed and dry. Keep away from food, drink and animal feeding stuffs. Storage temperature: < 60°C.

Section 8 - Exposure Controls/PPE

Ingredient	OSHA PEL:	ACGIH TLV	PPE		General Hygiene Considerations:
ethanol	1000ppm	1000ppm	**Respiratory:**	In the case of vapor formation use a respirator with an approved filter.	Handle in accordance with good industrial hygiene and safety practices. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
			Eye:	Tightly fitting safety goggles	
			Skin:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. No special protective equipment required.	
			Hand:	Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).	
			Ventilation:	Normal Room Ventilation	

Section 9 - Physical and Chemical Properties

Appearance	Odor	Odor Threshold	pH	Melting Point	Boiling Point	Evaporation Rate	Flammability	Upper/Lower Flammability Limits	Vapor Pressure
Green liquid	lemon	NE	12-13.5	NE	212ºF	1(water = 1)	not flammable	NA	NE
Vapor Density	**Density (lbs/gal)**	**Specific Gravity**	**pH(use dil)**	**Solubility (in water)**	**Partition Coefficient**	**Auto Ignition Temp**	**Viscosity**	**Decomposition Temp**	
NE	8.43	1.012	10-11	complete	NE	NA	Thin	NE	

Section 10 - Stability and Reactivity

Reactivity: Stable under recommended storage conditions.
Stability: Stable under normal conditions.
Hazardous Polymerization: Will not occur.
Incompatibility (Materials to Avoid): Strong oxidizing agents, reducing agent Anionics.
Hazardous Decomposition Products: Thermal decomposition can lead to the release of irritating gasses and vapors.

Section 11- Toxicological Information

Acute toxicity	
Acute oral toxicity	LD50: > 2,000 mg/kg
Acute inhalation toxicity	> 2 mg/l
Acute dermal toxicity	LD50: > 2,000 mg/kg
Skin corrosion/irritation	Assessment: Corrosive
Serious eye damage/eye irritation	Result: Corrosive
Respiratory or skin sensitization	Assessment: negative skin sensitizer

Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	Confirmed animal carcinogen with unknown relevance to humans. Ethanol 64-17-5

Other:
Information given is based on data on the components and the toxicity of similar products.

The following toxicological data refer to:
Alkyl (C12-16) dimethylbenzyl ammonium chloride(CAS-No.: 68424-85-1)

Acute oral toxicity	LD50 (Rat): ca. 344 mg/kg GLP: no
Acute dermal toxicity	LD50 (Rabbit, male and female): 3,412 mg/kg Method: OPPTS 870.1200 GLP: no

Skin corrosion/irritation Species: Rabbit Exposure time: 4 h Method: DOT Result: Corrosive GLP: no		**Respiratory or skin sensitization** Test Type: Buehler Test Species: Guinea pig Assessment: Did not cause sensitization on laboratory animals. Method: OECD Test Guideline 406 Result: not sensitizing GLP: yes
Germ cell mutagenicity Genotoxicity in vitro	Test Type: Ames test Species: Salmonella typhimurium Metabolic activation: yes Method: OECD Test Guideline 471 Result: not mutagenic GLP: yes	Test Type: Chromosome aberration test in vitro Species: Human lymphocytes Metabolic activation: yes Method: OECD Test Guideline 473 Result: non clastogenic GLP: yes
	Test Type: gene mutation test Species: Chinese hamster ovary cells Metabolic activation: yes Method: OECD Test Guideline 476 Result: not mutagenic GLP: yes	Test Type: unscheduled DNA synthesis assay Species: rat hepatocytes Method: OECD Test Guideline 482 Result: negative GLP: yes
Germ cell mutagenicity Genotoxicity in vivo	Test Type: In vivo micronucleus test Species: Mouse (male and female) Cell type: Bone marrow Application Route: oral (gavage) Method: OECD Test Guideline 474 Result: not mutagenic GLP: yes	
Reproductive toxicity Effects on fertility	Test Type: Two-generation study Species: Rat, female Application Route: Ingestion Dose: 0-300-1000-2000 ppm General Toxicity - Parent: NOAEL: 67 - 106 mg/kg body weight General Toxicity F1: 54 - 86 mg/kg body weight General Toxicity F2: NOAEL: 54 - 86 mg/kg body weight Fertility: NOAEL: 112 - 161 mg/kg body weight Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility. GLP: yes	Test Type: Two-generation study Species: Rat, male Application Route: Ingestion Dose: 0-300-1000-2000 ppm General Toxicity - Parent: NOAEL: 51 - 102 mg/kg body weight General Toxicity F1: NOAEL: 41 - 83 mg/kg body weight General Toxicity F2: NOAEL: 41 - 83 mg/kg body weight Fertility: NOAEL: 139 - 198 mg/kg body weight Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility. GLP: yes

Effects on fetal development	Species: Rat Strain: Sprague-Dawley Application Route: Oral Dose: 0-10-30-100 milligram per kilogram General Toxicity Maternal: NOEL: 8.1 mg/kg bw/day Developmental Toxicity: NOAEL: 81 mg/kg body weight Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected. GLP: yes

Repeated dose toxicity	Species: Dog, female NOAEL: 45 mg/kg Application Route: Dietary Exposure time: 90 d Number of exposures: daily Dose: 0-500-1500-3000 ppm	Species: Dog, male NOAEL: 50 mg/kg Application Route: Dietary Exposure time: 90 d Number of exposures: daily Dose: 0-500-1500-3000 ppm	Species: Rat, male NOAEL: 31 mg/kg Application Route: Dietary Exposure time: 90 d Number of exposures: daily Dose: 0-6-31-62 mg/kg Method: OECD Test Guideline 408 GLP: yes	Species: Rat, female NOAEL: 38 mg/kg Application Route: Dietary Exposure time: 90 d Number of exposures: daily Dose: 0-8-38-77 mg/kg Method: OECD Test Guideline 408 GLP: yes

Section 12 - Ecological Information

Ecotoxicity no data available

Persistence and degradability no data available

Bioaccumulative potential

Components:

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides:

Partition coefficient: n-octanol/water: log Pow: 2.59 (20 °C)
pH: 7
Method: Calculation method

Alkyl (C12-16) dimethylbenzyl ammonium chloride:

Partition coefficient: n-octanol/water: log Pow: 2.75 (20 °C)
Method: OECD Test Guideline 107
GLP: yes

Ethanol:

Partition coefficient: n-octanol/water: log Pow: -0.3

Mobility in soil no data available

Other adverse effects

Ozone-Depletion Potential: Regulation: US. EPA Clean Air Act (CAA) Section 602 Ozone-Depleting Substances (40 CFR 82, Subpt. A, App A & B)
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information: There is no data available for this product.

Section 13 - Disposal Considerations

Disposal methods

Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

UN number	Basic Description (DOT)	Class	Packing Group	LTD QTY
	Disinfectant, Not Regulated			
UN number	**Basic Description (IATA)**	**Class**	**Packing Group**	**LTD QTY**
	Disinfectant, Not Regulated			
UN number	**Basic Description (IMDG)**	**Class**	**Packing Group**	**LTD QTY**
	Disinfectant, Not Regulated			

Section 15 - Regulatory Information

SARA TITLE III (EPCRA) NOTIFICATION: Does not contain chemicals subject to the reporting requirements of Section 302 or 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986.

This product does contain the following product subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986:
Nonylphenol branched ethoxylated, CAS No. 127287-87-0, Concentration >= 1 - < 5 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):
Ethanol, CAS No. 64-17-5, Concentration >= 1 - < 5 %

California Prop. 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) NOTIFICATION: This does not contain chemicals subject to reporting under CERCLA For more information, consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

Section 16 - Other Information

			HMIS:	Health - 3	Flam. - 1	R - 0	PPE- C
Date Prepared: 08 Nov 2024			**Prepared by:** Director of Technical Service, Research and Development				

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with materials or in any process, unless specified in the text.

Legend for Abbreviations: GHS - Globally Harmonized System; CAS - Chemical Abstracts Service; NA - Not Applicable; MSHA - Mine Safety and HealthAdministration; NIOSH - National Institute for Occupational Safety and Health; TLV - threshold limit value; PPE - personal protection equipment; OSHA - Occupational Safety and Health Administration; PEL - Permissable Exposure Limit; ACGIH - American Conference of Governmental and Industrial Hygienists;NE - Not Established; STOT - Specific Target Organ Toxicity; HMIS - Hazard Materials Identification System; NOEC - No Observed Effect Concentration; CERCLA -Comprehensive Environmental Response, Compensation, and Liability Act; RQ - DOT Reportable Quantity; DOT - Department of Transportation (49 CFR parts 100 to 185); IATA - International Air Transport Association; IMDG - International Code for the maritime transport of Dangerous Goods.