



ADDITIONAL HEALTH & SANITATION PROGRAM 2020 COVID-19

We are closely monitoring government policy changes, Centers for Disease Control (CDC) guidelines, government mandates, and public health advancements and will continue to make changes as necessary or appropriate to our protocols and procedures.

The following document will change to typical protocol as well as refresher training. All KEES Vacations employees are subject to the changes in our Point Harbor Operations Center, Kitty Hawk Business Office, and Hatteras Landing Registration Office.

KEES Program

1 Employee & Guest Health

The health and safety of our employees and owners/guests is our number one priority.

Physical Distancing. Owners/Guests will be advised to practice physical distancing by standing at least six feet away from other groups of people not traveling with them while standing in lines, using elevators or moving around the property. Employees will be reminded not to touch their faces and to practice physical distancing by standing at least six feet away from owners/guests and other employees whenever possible. All resort outlets will comply with, or exceed, local or state mandated occupancy limits.

Hand Sanitizer. Hand sanitizer dispensers will be placed in all suites at the Point Harbor Operations Center, Villas of Hatteras Landing Registration Office and Kitty Hawk Business Office.

Front of the House Signage. There will be health and hygiene reminders throughout the Operations Center Villas of Hatteras Landing Registration Office and Business Office.

Back of the House Signage. Signage will be posted throughout the property reminding employees of the proper way to wear, handle and dispose masks, use gloves (in positions deemed appropriate by medical experts), wash hands, sneeze and to avoid touching their faces.

Employee & Guest Health Concerns. Our employees have been given clear instructions on how to respond swiftly and report all presumed cases of COVID-19 on property to the local health department. We will be ready to provide support to our owners/guests. Employees are instructed to stay home if they do not feel well and are instructed to contact a manager if they notice a coworker or owner/guest with a cough, shortness of breath, or other known symptoms of COVID-19. Employees and owners/guests who are exhibiting any of the symptoms of COVID-19 while at the property are instructed to immediately notify their manager (employees).

Case Notification. If we are alerted to a presumptive case of COVID-19 at a vacation rental property or hotel, we will work with the local health department to follow the appropriate actions recommended by it.

2 Employee's Responsibilities

KEES employees are vital for an effective sanitation and health program.

Hand Washing. Correct hygiene and frequent handwashing with soap is vital to help combat the spread of virus. All KEES employees have been instructed to wash their hands, or use sanitizer when a sink is not available, every 60 minutes (for 20-seconds) and after any of the following activities: using the restroom, sneezing, touching the face, blowing the nose, cleaning, sweeping, mopping, smoking, eating, drinking, going on break and

before or after starting a shift. Refer to hand washing training video in KEES Learning Management System.

COVID-19 Training. All employees will receive training on COVID-19 safety and sanitation protocols with more comprehensive training for our teams with frequent guest contact.

Personal Protective Equipment (PPE). Appropriate PPE will be worn by all employees based on their role and responsibilities and in adherence to state or local regulations and guidance. Training on how to properly use and dispose of all PPE will be mandatory. Every employee entering the property will be provided a mask and required to wear that mask while on property. Gloves will be provided to employees whose responsibilities require them as determined by medical experts including housekeeping and public area attendants and maintenance personnel in direct contact with owners/guests. Refer to PPE training video in KEES Learning Management System.

Gloves should be changed between properties and also between certain in property tasks. Hands should be washed as soon as possible after gloves are removed.

Once a mask is moist or wet it is no longer effective and should not be used anymore. For a disposable mask, discard it appropriately. For a cloth mask that can be reused or washed, carefully place it in a zipper bag to be disinfected later.

Daily Pre-Shift & Timekeeping. Employee pre-shift meetings will be conducted virtually or in areas that allow for appropriate physical distancing between employees. Larger departments will stagger employee arrival times to minimize traffic volume in back of house corridors and service elevators. Hand sanitizer will be available at each timeclock location and employees will be required to sanitize their hands after clocking in. Our management team will ensure constant communication and proper PPE and sanitation procedures are followed and updated per the latest expert guidance.

Non-Attendance Policy: Our staff members have a strict prevention program in place that includes not reporting to work when demonstrating any cold or flu-like symptoms, and call-offs related to illness are reported supervisory or management staff for monitoring. Employees who exhibit flu-like symptoms or live with someone who exhibits such symptoms are required to stay away from work for 14 days from the last day the person exhibits such symptoms.

3 Cleaning Products and Protocols

Our team use cleaning products and protocols which meet EPA guidelines² and are approved for use and effective against viruses, bacteria and other airborne and bloodborne pathogens. We are working with our vendors, distribution partners and suppliers to ensure an uninterrupted supply of these cleaning supplies and the necessary PPE. Chemical usage and Safety Data Sheets are supplied later in this document.

Public Spaces and Communal Areas. The frequency of cleaning and sanitizing has been increased in all public spaces with an emphasis on frequent contact surfaces including, but not limited to, front desk check-in counters, door handles, public bathrooms, room keys and locks, stair handrails, gym equipment, and seating areas.

Guest Rooms / Vacation Rental Properties. Industry leading cleaning and sanitizing protocols are used to clean owner/guest rooms, with particular attention paid to high-touch items including television remote controls, toilet seats and handles, door and furniture handles, water faucet handles, nightstands, telephones, in-room control panels, light switches, temperature control panels, alarm clocks, luggage racks and flooring.

Laundry. Dirty linen will not be shaken. Dirty linen will be bagged in the guest room in a plastic disposable bag to eliminate excess contact while being transported to the laundry facility.

All bed linen and laundry will be washed at a high temperature and in accordance with CDC guidelines.

Back of the House. The frequency of cleaning and sanitizing will also increase in high traffic back of house areas with an emphasis on the employee dining rooms, employee entrances, employee restrooms, offices, and kitchens.

Shared Equipment. Shared tools and equipment will be sanitized before, during and after each shift or anytime the equipment is transferred to a new employee. This includes phones, radios, computers and other communication devices, payment terminals, kitchen implements, engineering tools, safety buttons, folios, cleaning equipment, keys, time clocks and all other direct contact items used throughout the resort. The use of shared food and beverage equipment in back of the house office pantries (including shared coffee brewers) will be discontinued.

Room Recovery Protocol. In the event of presumptive case of COVID-19 the guest's room will be removed from service and quarantined. The guest room will not be returned to service until case has been confirmed or cleared. In the event of a positive case, the room will only be returned to service after undergoing an enhanced sanitization protocol by a licensed third-party expert and approval by the local health department.

Trash Removal. For both inside trash gathering or outside trash in container collection and removal. Gloves and masks should be worn at all times. When picking up trash one should always be aware of sharps and jagged pieces of glass or metal that could cut the individual as they are carrying the bag. One should never use their hand to push "compact" the trash bags in the trash bin so more bags can be added. Use a disinfecting product on the trash barrel or bin and place a fresh liner or bag inside.

Air Filter and HVAC Cleaning. The frequency of air filter replacement and HVAC system cleaning has been increased and fresh air exchange will be maximized.

Waiting Period. Small viral particles can hang in the air for many hours. The currently available WHO information suggest that respiratory droplets can last up to 3 hours in the air. A study published in the New England Journal of Medicine found that the COVID-19 virus can survive up to three days on hard metal surfaces and plastic and up to 24 hours on cardboard. During that window of time, the virus does begin to weaken. VRHP/VRMA recommends that waiting for the majority of airborne droplets to settle (3 hours) is the safest course of action. Whenever possible we will wait 24 hours before entering to clean a property after guest departure. If 24 hours is not possible we will wait the recommended 3 hours. We will do this in communication and coordination with the rental guest. In the cases that 3 hours is not possible added PPE measures will be incorporated including the usage of goggles.

4 Locations for the Distribution of Personal Protection Equipment (PPE)

<u>Front of the House</u>	<u>Back of the House</u>
All Office Entrances & Exits Registration & Concierge	Employee Entrances Department Specific Locations Including Maintenance, and Housekeeping.

5 Physical Distancing

Throughout our operation we will meet or exceed state and local health authority guidelines on proper physical distancing.

Queuing. Any area where guests or employees' queue will be clearly marked for appropriate physical distancing. This includes check-in, check-out, elevator lobbies, coffee shops, activities, and pool areas.

Front Desk and Concierge. Agents will adhere to six feet workstation to ensure separation between employees whenever possible.

Pools. Pool seating will be configured to allow for at least six feet of separation between groups of guests.

Back of the House. Physical distancing protocols will be used in the employee break rooms, shared office spaces, and other high-density areas in order to ensure appropriate distancing between employees.

6 Front Office

Cleaning & Sanitizing Protocol

- a) Sanitize all guest touchpoints after each transaction including EMV Credit

- Card Devices, pens and registration countertops
- b) Room keys to be sanitized before stocking
- c) Offices, Registration Desks to be deep cleaned and sanitized upon a shift change
- d) Sanitize high touch front desk spaces and equipment
- e) Offices, desks, counters, workspaces and related equipment (including iPads and radios) to be sanitized at least once every four hours or upon a new employee using the equipment
- f) Luggage carts and other guest amenities to be sanitized after each use
- g) All rental activity equipment sanitized after each use.

Physical Distancing Protocol

- a) Restructure stanchions to provide appropriate six-foot intervals
- b) Lobby Greeter to provide guidance to arriving and departing guests to ensure physical distancing measures are followed
- c) Implement peak period queueing procedures, including a Lobby Greeter, when the number of guests exceeds the lobby capacity
- d) Enforce six-foot physical distancing minimums with common carriers
- e) Encourage the use e-mail for all guest transactions

7 Pool Operations

There is no evidence that the virus that causes COVID-19 can be spread to people through the water in pools, hot tubs, spas, or water play areas. Proper operation and maintenance (including disinfection with chlorine and bromine) of these facilities should inactivate the virus in the water. (<https://www.cdc.gov/coronavirus/2019-ncov/php/water.html>)

Cleaning & Sanitizing Protocol

- a) Chaise lounge chairs to be sanitized each morning before pool opens

Physical Distancing Protocol

- a) Chaise lounge chairs set with appropriate physical distancing

8 Public & Common Areas

Cleaning & Sanitizing Protocol

- a) Employees to sanitize the following areas at least once per hour during scheduled shifts
 - Guest elevators
 - Employee breakroom tables and counters
- b) Employees to sanitize the following areas at least once per hour during scheduled shifts
 - Resort entry doors
 - Exterior benches
 - Trash bins
- c) All Front of House (FOH) restrooms to be sanitized at least once per hour during

scheduled shifts

Physical Distancing Protocol

- a) Guest laundry in common areas will adhere to the 6 ft protocols.
- b) Guest amenity deliveries will be with contactless procedures whenever possible

9 Housekeeping

Cleaning & Sanitizing Protocol

- a) Carts, trolleys and equipment to be sanitized at the start and end of each shift
- b) Back of house restrooms will be sanitized at least once every four hours

Physical Distancing Protocol

- a) Minimize contact with guests while cleaning resort rooms; guest room attendants will schedule a time for owners of occupied rooms while they are out.

Guest Considerations

- a) Disposable collateral to be disposed and changed after each guest
- b) Guest Registration Binders will be removed from all houses and rooms.
- c) Dishwasher will be loaded and started but not unloaded.
- d) Extra pillows and blankets stored in the guest room closets will be removed and available upon guest request
- e) Specific sanitation consideration will be paid to the following guest room areas:
 - Desks, counter tops, tables and chairs
 - Phones and remotes
 - Thermostats
 - Cabinetry, pulls and hardware
 - Doors and doorknobs
 - Bathroom vanities and accessories
 - Bathroom fixtures and hardware
 - Windows, mirrors and frames
 - Lights and lighting controls
 - Closets, hangers and other amenities

10. PROTEXUS PX200ES Equipment

KEES was able to secure an initial supply of this equipment and will begin testing in May. More information can be found at: <https://www.youtube.com/watch?v=F2ah4uTo4vg>

CORONAVIRUS: What You Need to Know



What are Coronaviruses?

They are viruses that affect the respiratory tract and are associated with the common cold, pneumonia, severe acute respiratory syndrome (SARS) and middle east respiratory syndrome (MERS). According to WHO, the novel Coronavirus (COVID-19) is a special strain of coronavirus that has not been previously found in humans. Information on the spread, severity and clinical impact of the virus is still limited.

▶ What are the symptoms?

- Fever
- Cough
- Shortness of breath
- Breathing difficulties
- Fatigue

▶ How long will the Coronavirus live on a surface?

Coronavirus can live on a surface for up to 6 days

▶ How can I prevent or protect others from Coronavirus?

- Wash your hands often with soap or water for at least 60 seconds
- Avoid touching your eyes, nose, or mouth with unwashed hands
- Avoid close contact with people who are sick
- Stay home when you have cold like symptoms
- Avoid close contact with others

▶ How can I get it?

- Coughing and sneezing without covering the mouth can disperse droplets into the air, spreading the virus
- Touching or shaking hands with a person that has the virus can pass the virus from one person to another
- Making contact with a surface or object that has the virus and then touching your nose, eyes, or mouth
- On rare occasions, a Coronavirus may spread through contact with feces

Coronaviruses are large enveloped viruses. The new outbreak from Wuhan, China is caused by novel Coronavirus (COVID-19). Both PUR:ONE and PURTABS are List N approved products against COVID-19.

PURTABS and **PUR:ONE** tablets are a safer bleach alternative disinfectant.

- Concentrated effervescent tablet for accurate dilution (ppm) every time.
- Neutral pH – not caustic or corrosive to surfaces
- NFPA rating 0,0,0 for Use Dilution



EarthSafe Chemical Alternatives LLC
145 Wood Road Braintree, MA 02184
866-666-2305 | info@EarthSafe.ca.com

www.evaclean.com

KEES APPROVED CLEANING PRODUCTS & PRODUCT DESCRIPTION

XCELENTE

Enjoy the fresh, clean fragrance of lavender while you clean with Xcelenté™ multi-purpose, hard surface cleaner. The phosphate-free formula is great for floors, and other surfaces where a bright, shiny, streak free finish is desired. With a long-lasting, fragrant bloom of lavender, Xcelenté will delight building residents and visitors throughout the day.

CLEAN BY PEROXY

Clean by Peroxy is a Green Seal™ Certified all-purpose cleaner that is environmentally responsible. With the cleaning power of peroxide, Clean by Peroxy is a unique product that will effectively clean windows, mirrors, floors, walls, carpets, restrooms, kitchens, tile and grout without streaking. Clean by Peroxy minimizes the number of products, simplifying training and inventory management.

HDQC2 DISINFECTANT

HDQC 2 is a neutral pH, quaternary disinfectant cleaner formulated to kill a broad spectrum of microorganisms on high gloss floors, and other hard, nonporous surfaces. It disinfects without damaging or dulling floor finish even with repeated use. HDQC 2 deodorizes hard-to-keep-fresh-smelling areas such as garbage storage areas, toilet bowls, and other areas which are prone to odors caused by microorganisms.

AIRLIFT TROPICAL

Airlift Tropical is a deodorant formulated to control and eliminate unpleasant odors wherever they occur. The formulation incorporates special ingredients to assist in the initial control of offensive odors caused by stale smoke, mildew, urine, and vomit. Airlift may be sprayed on carpet when extra carpet freshness is desired.

RJ8 ****SPECIAL TRAINING REQUIRED BEFORE USE OF PRODUCT****

RJ8 controls mold and mildew stains and wipes away soap scum in one easy step on tile and grout. RJ8 cleans and deodorizes a variety of hard surfaces in a restroom including wall tiles, grout, bathtubs, fiberglass, shower doors, vinyl curtains and porcelain sinks. Instantly whitens and makes removing heavy soap scum, body oils, plus mold and mildew stains vanish.

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Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 09-Feb-2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: AIRLIFT TROPICAL(BULK CONCENTRATE)
Product Number: 3067
Recommended Use: Air freshener
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 1

GHS Label Elements

Signal Word:

Danger

Symbols:



Hazard Statements:

Causes skin irritation.
Causes serious eye damage

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.

Response:

-Eyes

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 OR PHYSICIAN.

-Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
C9-11 Pareth-6	68439-46-3	3-7
Isopropyl Alcohol	67-63-0	1-5
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	68424-85-1	1-5
Fragrance	PROPRIETARY	0.1-1
Methyldihydrojasmonate	24851-98-7	0.1-1
Linalool	78-70-6	0.1-1
Hexyl Acetate	142-92-7	0.1-1
Hexamethylindanopyran	1222-05-5	0.1-1
Gamma-Undecalactone	104-67-6	0.1-1
2-T-Butylcyclohexyl Acetate	88-41-5	0.1-1
Benzyl Salicylate	118-58-1	<0.1
Methylenedioxyphenyl Methylpropanal	1205-17-0	<0.1
Ethylene Brassylate	105-95-3	<0.1
Ethyl Linalool	10339-55-6	<0.1
Citronellol	106-22-9	<0.1
Benzyl Acetate	140-11-4	<0.1
3a,4,5,6,7,7a-Hexahydro-4,7-Methano-1H-Indenyl Acetate	54830-99-8	<0.1
2,6-Dimethyl-7-Octen-2-ol	18479-58-8	<0.1
Acid Red 52	3520-42-1	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
Suggested Shelf Life:	Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Benzyl Acetate 140-11-4	TWA: 10 ppm	-	-

Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
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Personal Protective Equipment

Eye/Face Protection:	Wear splash goggles.
Skin and Body Protection:	Wear rubber or other chemical-resistant gloves.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Pink
Odor:	Floral fragrance
pH:	6.0-8.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	85 °C / 185 °F
Flash Point:	None / Pensky-Martens Closed Cup (PMCC)
Evaporation Rate:	< 1 (BuAc = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.00
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
-Skin Contact:	Pain, redness and cracking of the skin.
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.
Target Organ Effects:	-Eyes. Respiratory System. -Skin.
Numerical Measures of Toxicity	
The following acute toxicity estimates (ATE) are calculated based on the GHS document.	
ATEmix (oral):	9843 mg/kg
ATEmix (dermal):	78999 mg/kg mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
C9-11 Pareth-6 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h

Alkyl C12-16 Dimethylbenzyl Ammonium Chloride 68424-85-1	= 426 mg/kg (Rat)	Not Available	Not Available
Methylhydrojasmonate 24851-98-7	> 5 g/kg (Rat)	Not Available	Not Available
Linalool 78-70-6	= 2790 mg/kg (Rat)	Not Available	Not Available
Hexyl Acetate 142-92-7	= 41500 µL/kg (Rat)	Not Available	Not Available
Hexamethylindanopyran 1222-05-5	> 3250 mg/kg (Rat)	> 3250 mg/kg (Rabbit)	Not Available
Gamma-Undecalactone 104-67-6	= 18500 mg/kg (Rat)	Not Available	Not Available
2-T-Butylcyclohexyl Acetate 88-41-5	= 4600 mg/kg (Rat)	Not Available	Not Available
Benzyl Salicylate 118-58-1	= 2227 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	Not Available
Citronellol 106-22-9	= 3450 mg/kg (Rat)	= 2650 mg/kg (Rabbit)	Not Available
Benzyl Acetate 140-11-4	= 2490 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	Not Available
2,6-Dimethyl-7-Octen-2-ol 18479-58-8	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	Not Available

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50	Not Available	13299: 48 h <i>Daphnia magna</i> mg/L EC50
Linalool 78-70-6	88.3: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	Not Available	Not Available	20: 48 h <i>Daphnia magna</i> mg/L EC50
Hexyl Acetate 142-92-7	Not Available	3.7 - 4.4: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated

Proper Shipping Name: Non Hazardous Product

Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated

Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product contains the following listed substances:

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 3	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 3	Flammability: 0	Physical Hazards: 0	

Revision Date: 09-Feb-2020
Reasons for Revision: Section, 3, 7, 8, 9, 11, and, 12

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 21-Jan-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CLEAN ON THE GO CLEAN BY PEROXY [15]
Product Number: 4820
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements:

Causes skin irritation.
Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Wear eye / face protection
Wear protective gloves

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

-Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Undeceth-3	34398-01-1	1-5
Hydrogen Peroxide	7722-84-1	1-5
C9-11 Pareth-6	68439-46-3	1-5
Poly(oxy-1,2-ethanediyl) a,a-[[[3-(decyloxy)propyl]methyliminio]di-2,1-ethane diyl]bis[w-hydroxy-, branched, chlorides	68478-94-4	1-5
Citric Acid	77-92-9	0.1-1
Acid Blue 80	4474-24-2	<0.1
Fragrance	PROPRIETARY	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Contains hydrogen peroxide. Ingestion may result in distention of esophagus and stomach.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire.
- Specific Hazards Arising from the Chemical:** Combustion products are toxic. Releases oxygen when heated to decomposition which may intensify fire.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

- Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.
Incompatible Materials:	Sodium hypochlorite (or other hypochlorites). Metals.
Suggested Shelf Life:	Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Hydrogen Peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves.

Respiratory Protection: Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Light blue
Odor:	Pleasant
pH:	Undiluted: 2.0-3.0 / Diluted 1:64: 3.0-5.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F
Evaporation Rate:	< 1 (BuAc = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.016
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites). Metals.

Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
-Skin Contact: Pain, redness and cracking of the skin.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Target Organ Effects: -Eyes. Respiratory System. -Skin.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 8069 mg/kg
 ATEmix (dermal): 39625 mg/kg
 ATEmix (inhalation-gas): 22943 mg/l
 ATEmix (inhalation-dust/mist): 66 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Hydrogen Peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 2000 mg/kg (Rabbit) = 4060 mg/kg (Rat)	= 2 g/m ³ (Rat) 4 h
C9-11 Pareth-6 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
Citric Acid 77-92-9	= 3 g/kg (Rat)	Not Available	Not Available
Acid Blue 80 4474-24-2	= 3350 mg/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Hydrogen Peroxide 7722-84-1	Not Available	16.4: 96 h Pimephales promelas mg/L LC50 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	18 - 32: 48 h Daphnia magna mg/L EC50 Static
Citric Acid 77-92-9	Not Available	1516: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 2	Flammability: 0	Instability: 1	Special: N/A
HMIS	Health Hazards: 2	Flammability: 0	Physical Hazards: 1	

Revision Date: 21-Jan-2019
Reasons for Revision: Section, 3, 7, and, 11

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 26-Nov-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CLEAN ON THE GO hdqC2
Product Number: 4702 , 1014
Recommended Use: Disinfectant
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 1 Sub-category C
Serious Eye Damage/Eye Irritation: Category 1
Skin Sensitization: Category 1

GHS Label Elements

Signal Word:

Danger

Symbols:



Hazard Statements:

Causes severe skin burns and serious eye damage.
May cause an allergic skin reaction

Precautionary Statements:

Prevention:

Do not breathe mist, vapors or spray.
Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.
Contaminated work clothing should not be allowed out of the workplace

Response:

IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

-Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.

-Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

-Ingestion:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:	Store locked up.
Disposal:	Dispose of contents and container in accordance with local, state and federal regulations.
Hazards Not Otherwise Classified:	Not Applicable
Other Information:	<ul style="list-style-type: none"> • Corrosive. • May be harmful if swallowed. • Inhalation of vapors or mist may cause respiratory irritation. • Keep out of reach of children. • NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Dicapryl/Dicaprylyl Dimonium Chloride	68424-95-3	1-5
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride	68424-85-1	1-5
Alcohol	64-17-5	1-5
Tetrasodium EDTA	64-02-8	0.1-1
C9-11 Pareth-6	68439-46-3	0.1-1
Citric Acid	77-92-9	0.1-1
Limonene	5989-27-5	0.1-1
Fragrance	PROPRIETARY	<0.1
Terpinolene	586-62-9	<0.1
Gamma-Terpinene	99-85-4	<0.1
CI 16035	25956-17-6	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Skin Contact:	Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
Note to Physicians:	NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
Suggested Shelf Life:	1 year from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.
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Personal Protective Equipment

Eye/Face Protection:	Wear splash goggles.
Skin and Body Protection:	Wear rubber or other chemical-resistant gloves.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Red
Odor:	Mild Citrus fragrance
pH:	6.0-7.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.0
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
-Skin Contact:	Pain, redness, blistering and possible chemical burn.
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Ingestion may cause irritation to mucous membranes. Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral):	2596 mg/kg
ATEmix (dermal):	33168 mg/kg
ATEmix (inhalation-dust/mist):	5.43 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Alkyl C12-16 Dimethylbenzyl Ammonium Chloride 68424-85-1	= 426 mg/kg (Rat)	Not Available	Not Available
Alcohol 64-17-5	= 7060 mg/kg (Rat)	Not Available	= 124.7 mg/L (Rat) 4 h
Tetrasodium EDTA 64-02-8	= 1658 mg/kg (Rat)	Not Available	Not Available
C9-11 Pareth-6 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
Citric Acid 77-92-9	= 3 g/kg (Rat)	Not Available	Not Available
Limonene 5989-27-5	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	Not Available
Terpinolene 586-62-9	= 4390 mg/kg (Rat)	Not Available	Not Available
Gamma-Terpinene 99-85-4	= 3650 mg/kg (Rat)	Not Available	Not Available
CI 16035 25956-17-6	> 10 g/kg (Rat)	Not Available	Not Available

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea

Alcohol 64-17-5	Not Available	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	Not Available	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	Not Available	Not Available
Citric Acid 77-92-9	Not Available	1516: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available
Limonene 5989-27-5	Not Available	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT:

UN/ID No: UN1760

Proper Shipping Name: Corrosive liquid, n.o.s.,(contains Quaternary Ammonium Chloride)

Hazard Class: 8

Packing Group: III

Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG:

UN/ID No: UN1760

Proper Shipping Name: Corrosive liquid, n.o.s.,(contains Quaternary Ammonium Chloride)

Subsidiary hazard class: 8

Packing Group: III

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

EPA Pesticide Registration Number: 1839-169-5741

EPA Statement:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label:

Danger. Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

16. OTHER INFORMATION**NFPA****Health Hazards:** 3**Flammability:** 0**Instability:** 0**Special:** N/A**HMIS****Health Hazards:** 3**Flammability:** 0**Physical Hazards:** 0**Revision Date:**

26-Nov-2019

Reasons for Revision:

Section, 2, 3, 7, 11, and, 14

Disclaimer:

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End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 14-Oct-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: RJ8
Product Number: 7110
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 1 Sub-category C
Serious Eye Damage/Eye Irritation: Category 1

GHS Label Elements

Signal Word:

Danger

Symbols:



Hazard Statements:

Causes severe skin burns and serious eye damage.

Precautionary Statements:

Prevention:

Do not breathe mist, vapors or spray.
Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.

Response:

IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

-Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

-Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

-Ingestion:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- Harmful if swallowed
- Inhalation of vapors or mist may cause respiratory irritation.
- Do not use or mix with other cleaning products, acids, ammonia or other chemicals. To do so may release hazardous gases.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Sodium Hypochlorite	7681-52-9	1-5
Disodium Cetyl Phenyl Ether Disulfonate	65143-89-7	0.1-1
Sodium Hydroxide	1310-73-2	0.1-1
Sodium Ethylhexyl Sulfate	126-92-1	0.1-1
Sodium Carbonate	497-19-8	0.1-1
Fragrance	PROPRIETARY	<0.1
p-Menthanyl Acetate	58985-18-5	<0.1
6,7-Dihydrolinalool	18479-49-7	<0.1
Dihydro-Alpha-Terpinol	498-81-7	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Skin Contact:** Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse. Discard or destroy contaminated shoes.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
- Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Water spray (fog), Carbon dioxide
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
Incompatible Materials:	Acids. Strong oxidizing agents. Ammonia. Reactive metals such as aluminum, zinc and tin.
Suggested Shelf Life:	1 year from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Engineering Controls: Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves.

Respiratory Protection: Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Clear Yellow
Odor:	Mint fragrance
pH:	13.0-13.2
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.042
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Contact with acids releases chlorine gas. Contact with ammonia releases chloramine gas. Contact with aluminum or other reactive metals may release hydrogen gas.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Acids. Strong oxidizing agents. Ammonia. Reactive metals such as aluminum, zinc and tin.

Hazardous Decomposition Products:May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.**11. TOXICOLOGICAL INFORMATION****Likely Routes of Exposure:**

Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:**-Eye Contact:**

Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.

-Skin Contact:

Pain, redness, blistering and possible chemical burn.

-Inhalation:

Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.

-Ingestion:

Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects**Product Information:**

Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document. Data not available or insufficient for classification.

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Sodium Hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	Not Available
Disodium Cetyl Phenyl Ether Disulfonate 65143-89-7	> 5000 mg/kg (Rat)	Not Available	Not Available
Sodium Hydroxide 1310-73-2	Not Available	= 1350 mg/kg (Rabbit)	Not Available
Sodium Ethylhexyl Sulfate 126-92-1	= 4 g/kg (Rat)	Not Available	Not Available
Sodium Carbonate 497-19-8	= 4090 mg/kg (Rat)	Not Available	= 2300 mg/m ³ (Rat) 2 h

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Sodium Hypochlorite 7681-52-9	Not Available	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static
Sodium Hydroxide 1310-73-2	Not Available	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	Not Available

Sodium Carbonate 497-19-8	Not Available	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	Not Available	265: 48 h Daphnia magna mg/L EC50
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Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Do not reuse container.

14. TRANSPORT INFORMATION

DOT:

UN/ID No: UN1760

Proper Shipping Name: Corrosive liquids, n.o.s., (contains sodium hypochlorite, sodium hydroxide)

Hazard Class: 8

Packing Group: III

Special Provisions: Corrosive (Class 8), Packing Group III materials meet the exception requirements of section 49 CFR 173.154 when individual containers of not more than 1.3 gallon capacity are packed in a strong outer packaging and ground transportation is utilized. Such material may be reclassified as "Limited Quantity".

Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG:

UN/ID No: UN1760

Proper Shipping Name: Corrosive liquids, n.o.s., (contains sodium hypochlorite, sodium hydroxide)

Hazard Class: 8

Packing Group: III

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA

Health Hazards: 3

Flammability: 0

Instability: 0

Special: N/A

HMIS

Health Hazards: 3

Flammability: 0

Physical Hazards: 0

Revision Date: 14-Oct-2019
Reasons for Revision: Section, 3, 7, 8, 11, 12, and, 13

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a 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 any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 28-Oct-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: XCELENTE
Product Number: 0019
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements:

Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Wear eye / face protection

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

-Specific Treatment:

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
C9-11 Pareth-6	68439-46-3	1-5
Isopropyl Alcohol	67-63-0	1-5
Sodium Caprylyl Sulfonate	5324-84-5	0.1-1
Tetrasodium EDTA	64-02-8	0.1-1
Fragrance	PROPRIETARY	<0.1
Terpineol Acetate	8007-35-0	<0.1
7-Octen-2-ol, 2-Methyl-6-Methylene-, Dihydro Deriv.	53219-21-9	<0.1
Citric Acid	77-92-9	<0.1
4-Tert-Butylcyclohexyl Acetate	32210-23-4	<0.1
Ethylene Brassylate	105-95-3	<0.1
Eucalyptus Globulus Leaf Oil	8000-48-4	<0.1
Diphenyl Ether	101-84-8	<0.1
Benzyl Acetate	140-11-4	<0.1
Tetramethyl Acetyloctahydronaphthalenes	54464-57-2	<0.1
Anisaldehyde	123-11-5	<0.1
Fir Needle Oil	8021-29-2	<0.1
Butylphenyl Methylpropional	80-54-6	<0.1
Benzisothiazolinone	2634-33-5	<0.1
Methylisothiazolinone	2682-20-4	<0.1
Colorant	PROPRIETARY	<0.1
Methylchloroisothiazolinone	26172-55-4	<0.1
Acid Blue 9	3844-45-9	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with soap and water. If skin irritation occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Suggested Shelf Life: Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Diphenyl Ether 101-84-8	STEL: 2 ppm vapor TWA: 1 ppm vapor	TWA: 1 ppm vapor TWA: 7 mg/m ³ vapor (vacated) TWA: 1 ppm vapor (vacated) TWA: 7 mg/m ³ vapor	IDLH: 100 ppm vapor TWA: 1 ppm vapor TWA: 7 mg/m ³ vapor
Benzyl Acetate 140-11-4	TWA: 10 ppm	-	-

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Not required with expected use.

Respiratory Protection: Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Purple
Odor:	Pleasant fragrance added
pH:	Undiluted: 7.0-8.0 / Diluted 1:43: 7.5-9.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	90 °C / 194 °F
Flash Point:	> 90 °C / > 194 °F Pensky-Martens Closed Cup (PMCC)
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	0.998
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness, swelling of the conjunctiva and blurred vision.
-Skin Contact:	Drying of the skin.
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.

Target Organ Effects: -Eyes. Respiratory System. -Skin.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral):	30077 mg/kg
ATEmix (dermal):	53520 mg/kg
ATEmix (inhalation-dust/mist):	4686 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
C9-11 Pareth-6 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
Isopropyl Alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Tetrasodium EDTA 64-02-8	= 1658 mg/kg (Rat)	Not Available	Not Available

Citric Acid 77-92-9	= 3 g/kg (Rat)	Not Available	Not Available
4-Tert-Butylcyclohexyl Acetate 32210-23-4	= 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	Not Available
Eucalyptus Globulus Leaf Oil 8000-48-4	= 2480 mg/kg (Rat)	Not Available	Not Available
Diphenyl Ether 101-84-8	= 2450 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	Not Available
Benzyl Acetate 140-11-4	= 2490 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	Not Available
Anisaldehyde 123-11-5	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 0.32 mg/L (Rat) 7 h
Fir Needle Oil 8021-29-2	= 10200 mg/kg (Rat)	Not Available	Not Available
Butylphenyl Methylpropional 80-54-6	= 1390 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	Not Available
Benzisothiazolinone 2634-33-5	= 1020 mg/kg (Rat)	Not Available	Not Available
Methylchloroisothiazolinone 26172-55-4	= 481 mg/kg (Rat)	Not Available	= 1.23 mg/L (Rat) 4 h

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Isopropyl Alcohol 67-63-0	1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1400000: 96 h <i>Lepomis macrochirus</i> µg/L LC50	Not Available	13299: 48 h <i>Daphnia magna</i> mg/L EC50
Tetrasodium EDTA 64-02-8	1.01: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	41: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 59.8: 96 h <i>Pimephales promelas</i> mg/L LC50 static	Not Available	Not Available
Citric Acid 77-92-9	Not Available	1516: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	Not Available	Not Available
Diphenyl Ether 101-84-8	Not Available	4: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 4 - 7.9: 96 h <i>Pimephales promelas</i> mg/L LC50 static	Not Available	0.11 - 1.1: 48 h <i>Daphnia magna</i> mg/L LC50
Butylphenyl Methylpropional 80-54-6	Not Available	2.2 - 4.6: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	Not Available	10.7: 48 h <i>Daphnia magna</i> mg/L EC50
Methylchloroisothiazolinone 26172-55-4	0.11 - 0.16: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static 0.03 - 0.13: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 static	1.6: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 semi-static	Not Available	4.71: 48 h <i>Daphnia magna</i> mg/L EC50 0.12 - 0.3: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through 0.71 - 0.99: 48 h <i>Daphnia magna</i> mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non-Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non-Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
 All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product contains the following listed substances:

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

16. OTHER INFORMATION

NFPA	Health Hazards: 2	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 2	Flammability: 0	Physical Hazards: 0	

Revision Date: 28-Oct-2019
Reasons for Revision: Section, 3, 7, 8, 9, 11, and, 12

Disclaimer:

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End of Safety Data Sheet

SAFETY DATA SHEET

Product Name: PUR TABS (ALL USE DILUTIONS)
Revision date: 29/04/2016
Supersedes: - **Revision: 0**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance/preparation

Product Name : **PUR TABS (ALL USE DILUTIONS)**
Synonyms : None

1.2 Use of the substance/preparation

This safety data sheet refers only to the effervescent disinfectant solution produced by PUR TABS. It does not apply to the actual tablets/granules.
The solution can be used for drinking water disinfection and surface disinfection (depending on dilution).

1.3 Company/undertaking identification

Distributor : EarthSafe Chemical Alternatives
145 Wood Road, Braintree, MA 02184
Tel: 866-666-2305
e-mail: info@earthsafeca.com

1.4 US Emergency Contact Telephone Number:
CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the solution according to the Globally Harmonised System of Classification and Labelling of Chemicals, Third Revised Edition, 2009 (GHS):

Not classified for physical or health hazards at any concentration.
Not classified for environmental hazards at < 2500 ppm chlorine.

Additional Information:

Please note where the final concentration of chlorine exceeds 2500 ppm (0.25%) then the final solution is classified as Aquatic Acute 1.

2.2 Label Elements

Labelling in accordance with Globally Harmonised System of Classification and Labelling of Chemicals, Third Revised Edition, 2009 (GHS):

None.

Supplemental Hazard Statement

Please note where the final concentration of chlorine exceeds 2500 ppm (0.25%) the following apply:



Pictogram:

Word:

Warning

Hazard statement:

H400 Very toxic to aquatic life

Prevention statement:

P273 Avoid release into the environment

Precautionary statements:

P391 Collect spillage

P501 dispose of container to appropriate site

Please note that OSHA do not regulate the GHS environmental classification and the above is not required on an OSHA label.

2.3 Other Hazard Information

None

SAFETY DATA SHEET

Product Name: PUR TABS (ALL USE DILUTIONS)
Revision date: 29/04/2016
Supersedes: - **Revision: 0**

3. COMPOSITION/INFORMATION ON INGREDIENTS.

The solution is not classified unless the amount of chlorine is > 2500 ppm, when an environmental classification is required. Please note that chlorine is formed in solution when PUR TABS is dissolved in water.

Name	Cas number	Concentration in solution	Classification according to GHS (self-classification)
Chlorine (gas)	7782-50-5	> 2500 ppm (> 2500 mg/L)	Press.Gas Ox Gas 1: H270 Skin Irrit. 2: H315 Eye Irrit 2: H319 Acute Tox 3: H331 STOT SE 3: H335 Aquatic Acute 1: H400 M=100*

* M factor = 100 Usual cut off for acute aquatic toxicity is 25%, but this is reduced to 0.25% (2500 ppm) due to the M factor.

Full description on H statements in section 16.

4. FIRST AID MEASURES.

Inhalation: Short Term Exposure: no hazard identified
First Aid: Move person to fresh air. Call a physician if symptoms develop or persist.

Skin contact: Short Term Exposure: no hazard identified
First Aid: Wash with soap and water. Get medical attention if irritation develops and persists.

Eye contact: Short Term Exposure: Direct contact with eyes may cause temporary irritation.
First Aid: Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Short Term Exposure: Not a likely route of exposure. No hazard identified
First Aid: Rinse mouth. Get medical attention if symptoms occur.

Note to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES.

Extinguishing Media

Water fog, dry chemical powder or carbon dioxide (CO₂).

Fire-Fighting Techniques/Comments

Fire-fighters should wear full protective clothing and a self contained breathing apparatus.

Hazardous Combustion Products

Gases hazardous to health may occur.

6. ACCIDENTAL RELEASE MEASURES.

Personal Precautions

Avoid contact with skin and eyes. Wear chemical safety goggles and chemical resistant gloves.
 Handle product in a well-ventilated area.

Environmental Precautions

Do not release into the environment. Prevent flow of material into water source and begin monitoring available chlorine and pH immediately. Notify all downstream users of possible contamination.

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Methods for Cleaning Up

Contain spilled material. Any spillage should be cleaned up as soon as possible. Dilute further with water and flush to the sanitary sewer.

7. HANDLING AND STORAGE.

7.1 Handling

If contact is likely, safety glasses with side shields are recommended. For prolonged or repeated skin contact use suitable protective gloves. In case of insufficient ventilation, wear suitable respiratory equipment. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

7.2 Storage

Store in a closed container away from oxidising agents. Keep out of reach of children.

7.3 Handling Instructions for Specific Uses

None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

The information below relates to pure chlorine gas, please note that under normal conditions chlorine gas is not realised from the solution in appreciable amounts.

Exposure Limits:

Components	ACGIH-TLV Data	OSHA (PEL) Data
Chlorine gas	Threshold Limit Value: 0.5 ppm, 1.5 mg/m ³ Time Weighted Average: 2.9 mg/m ³	General Industry: 1 ppm, 3 mg/m ³ ceiling Maritime: 1 ppm 3 mg/m ³ TWA

Engineering controls:

General ventilation

Personal Protective Equipment:

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties.

Appearance : Clear to slightly hazy
 Odor : Slight chlorine odour.
 Odor threshold : Not available
 Color : Colorless
 pH : 6 - 7
 Boiling point/boiling range : 212 °F (100 °C)
 Flash point : None to Boiling
 Flammability (solid, gas) : Not applicable
 Vapor pressure : Not available
 Vapor density : Not available
 Water solubility : Completely Soluble in Water

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Partition coefficient: n-octanol/water : Not available
 Evaporation rate : Not available
 Thermal Decomposition Temp : Not available
 Specific gravity : 1.01
 VOC (weight %) : 0%

10. STABILITY AND REACTIVITY.

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability Material is stable under normal conditions.
Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.
Conditions to avoid Contact with incompatible materials.
Incompatible materials Strong oxidizing agents
Hazardous decomposition products No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION.

PURTABS solution

Eye Contact: May cause temporary irritation, but not classified as an irritant
Skin: No irritation expected. Not a Potential Sensitizer
Ingestion: Expected to be a low ingestion hazard
Inhalation: No adverse effects expected.

Toxicological Effect	Exposure Results
Primary Skin Irritation	No data, not expected to be irritant
Primary Eye Irritation	No data, may cause temporary irritation
Acute Toxicity - Oral	LD ₅₀ Rat > 5000 mg/kg
Acute Toxicity - Inhalation	No data, no adverse effects expected
Acute Toxicity - Dermal	LD ₅₀ rabbit > 5000 mg/kg
Mutagenicity	No data
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	No data, not expected to cause reproductive or developmental effects
Sensitisation - Skin	No data
Sensitisation - Respiratory	No data
Repeated-Dose Toxicity	No data

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: none identified

TARGET ORGANS: eyes, temporary irritation

12. ECOLOGICAL INFORMATION.

PURTABS solution

The solution is not classified as environmentally hazardous when the amount of chlorine is < 2500 ppm. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

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If the solution contains > 2500 ppm chlorine then it may be acutely toxic to aquatic life

The following relates to chlorine only

Fish Toxicity	Chlorine
Rainbow trout (1)	LC ₅₀ (96 hours) 0.037 – 0.84 mg/L
Invertebrate Toxicity	Sodium Dichloroisocyanurate acid
Crustaceans (1)	LC ₅₀ (48 hours) 0.00203 – 4.72 mg/L

Persistence and degradability Based on the biodegradability data of the components, this material is expected to be biodegradable.

Bioaccumulative potential This material does not contain chemicals that have known bioaccumulative potential.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

13. DISPOSAL CONSIDERATIONS.

Disposal instructions Diluted products can be flushed to the sanitary sewer.
Hazardous waste code Not assigned.
Waste from residues / unused products Dispose of in accordance with local regulations
Contaminated packaging Rinse unusable containers before recycling or disposal as trash to remove any product residue.

14. TRANSPORT INFORMATION.

DOT
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

15. REGULATORY INFORMATION.

US federal regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA (Superfund) reportable quantity
Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories Immediate Hazard – No
Delayed Hazard – No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical No

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SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated. Safe

Drinking Water Act (SDWA) Not regulated

US state regulations

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not regulated.

US. Pennsylvania RTK - Hazardous Substances
Not regulated.

US. Rhode Island RTK
Not regulated.

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
 A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. OTHER INFORMATION.

Further information This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

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Disclaimer

DANGER
CORROSIVE
Causes Irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through skin.

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

References

(1) GESTIS Substance Database ([http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng\\$3.0](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng$3.0))

GHS Classification used in Section 3

Ox Gas 1: H270 May cause or intensify fire; oxidiser
 Skin Irrit. 2: H315 Causes skin irritation
 Eye Irrit 2: H319- Causes serious eye irritation
 Acute Tox 3: H331 Toxic if inhaled
 STOT SE 3: H335 May cause respiratory irritation
 Aquatic Acute 1: H400 Very toxic to aquatic life

REVISION NO: 0	ISSUE DATE 29/04/2016
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REVISION HISTORY:

Revision No. 0– New SDS required for PUR TABS In-Use dilutions