

### 01 Chemical Product and Company Identification

**Product Name** Sapphire  
**Product Use** One Step Disinfectant Cleaner  
**Product Code** 3039  
**For Medical Emergency** Call 'Chemtrec' 1-800-424-9300  
**Supplier's Information** Santec Inc.  
1420 East Linden Avenue, Linden NJ 07036

This product is a registered pesticide. EPA No. 1839-220-84179

### 02 Hazards Identification

**GHS Classification:** 1. Skin - Category 2  
2. Eyes - Category 2B

**GHS Label Element:**



**Signal Word:** Warning

**Hazard Statement:** May cause skin irritation.

**Precautionary Statements:** Wear protective gloves and eye protection. Wash thoroughly after handling.

#### Acute Effects

**Eyes:** May cause eye irritation.

**Skin:** May be mildly irritating.

**Inhalation:** Mists and vapors may be mildly irritating to the throat and respiratory tract.

**Ingestion:** May be irritating to the mouth, throat and gastrointestinal system. Symptoms may include nausea, vomiting, diarrhea and cramps.

#### Chronic Effects

**Carcinogenicity:** No known critical effects or critical hazards.

**Product /Ingredient Name:** Not available.

### 03 Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS No.	WT.%
Alkyl Dimethyl Benzyl Ammonium Chloride	68391-01-5	0.15
Alkyl Dimethyl Ethylbenzyl Ammonium Chlorides	85409-23-0	0.15

### 04 First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. Flush with large quantities of water, holding eyelids open for 15 minutes. Seek medical attention if symptoms persist.

**Skin Contact:** Wash skin with copious amounts of water. If symptoms persist seek medical attention.

**Inhalation:** Remove to fresh air. Seek medical attention if irritation persists.

**Ingestion:** Do not induce vomiting. Drink copious amounts of water. Seek medical attention immediately.

### 05 Fire Fighting Measures

**Suitable Fire Extinguishing Media:** Use water spray, fog or foam

**Specific Hazards Arising from the Chemical:** In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous Thermal Decomposition Products:** No Specific Data

**Specific Fire-Fighting Methods:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Specific Protective Equipment for Fire-Fighters:** Fire-Fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 06 Accidental Release Measures

**Spill Clean Up:** Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move Containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**07**

Handling and Storage

**Handling:** Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Wash thoroughly after handling.

**Storage:** Store between the following temperatures: 4.44 to 48.9°C (40 to 120°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**08**Exposure Controls/  
Personal Protection**Ingredient Name**

N/A

**Exposure Limits**

N/A

**Personal Protective Equipment (PPE)****Eyes:** Safety glasses.**Body:** For prolonged or repeated handling, use gloves. Nitrile gloves. Rubber gloves. Neoprene gloves.**Respiratory:** Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.**09**

Physical and Chemical Properties

**Physical State**

Water Thin liquid

**Color**

Light Yellow

**Odor**

Power n Fresh

**pH**

11-11.5

**Flash point**

None

**Explosion limits**

Not available

**Flammability (solid, gas)**

Not available

**Melting point**

Not available

**Boiling point**

Not available

**Evaporation rate (butyl acetate = 1)**

Not available

**Vapor pressure**

Not available

**Vapor density**

Not available

**Relative density**

1.00 (Water = 1)

**Solubility**

Easily soluble in the following materials: cold water and hot water

**Partition coefficient n-octano/water**

Not available

**Auto-ignition temperature**

Not available

**Decomposition temperature**

Not available

**Odor threshold**

Not available

**Viscosity**

Kinematic (room temperature): 300-350 (CPS)

**10**

Stability and Reactivity

**Stability:** The product is stable.**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.**Conditions to avoid:** Keep away from strong oxidizing agents.**Materials to avoid:** Strong oxidizers, reducing agents.**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition should not be produced.

11	Toxicological Information	<b>Product /Ingredient Name</b> Alkyl Dimethyl Benzyl Ammonium Chloride (C12-16) Alkyl Dimethyl Ethylbenzyl Ammonium Chloride	<b>Result</b> LD50 Oral LD50 Oral	<b>Species</b> Rat Rat	<b>Dose</b> > 2000 mg/kg >2000 mg/kg												
12	Ecological Information	N/A															
13	Disposal Considerations	<b>Waste Information</b> Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.															
14	Transport Information	<b>Regulatory Information</b> <table border="1"> <tr> <td><b>DOT Classification</b></td> <td>UN Number</td> <td>Proper Shipping Name</td> <td>Classes</td> <td>PG*</td> <td>Label</td> </tr> <tr> <td>not regulated</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> </tr> </table> <p><b>Note:</b> DOT classification applies to most package sizes. For specific container size classifications or size exceptions, refer to the bill of lading with your shipment.</p> <p><b>PG*:</b> Packing Group</p>	<b>DOT Classification</b>	UN Number	Proper Shipping Name	Classes	PG*	Label	not regulated		-	-	-				
<b>DOT Classification</b>	UN Number	Proper Shipping Name	Classes	PG*	Label												
not regulated		-	-	-													
15	Regulatory Information	<p><b>U.S. Federal Regulations</b></p> <p><b>TSCA 8(b) inventory:</b> All components are listed or exempted.</p> <p><b>SARA 302/304/311/312 extremely hazardous substances:</b> No listed substance</p> <p><b>SARA 302/304 emergency planning and notification:</b> No listed substance</p> <table border="1"> <thead> <tr> <th><b>SARA 313</b></th> <th><b>Product name</b></th> <th><b>CAS number</b></th> <th><b>Concentration</b></th> </tr> </thead> <tbody> <tr> <td>Form R-Reporting requirements</td> <td>No listed substance</td> <td></td> <td></td> </tr> </tbody> </table>	<b>SARA 313</b>	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>	Form R-Reporting requirements	No listed substance									
<b>SARA 313</b>	<b>Product name</b>	<b>CAS number</b>	<b>Concentration</b>														
Form R-Reporting requirements	No listed substance																
16	Other Information	<p>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> <p><b>Date of Issue:</b> 05/31/2018</p>		<p>*Hazard Determination System (HDS):</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> </table>	Health	1	Reactivity	0	Flammability	0							
Health	1																
Reactivity	0																
Flammability	0																

\*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimum hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.

# SAPPHIRE



**Sapphire** is an EPA registered disinfectant cleaner, (EPA Reg. 1839-220-84179). It is formulated to be a ready-to-use one step cleaning and disinfecting solution for hard, non-porous, inanimate surfaces such as walls, floors, bathrooms, bathtubs, cabinets and all metal surfaces including railings.

**Sapphire** is EPA List N approved for 2019-nCoV/COVID-19 (Human Coronavirus). **Sapphire** has demonstrated effectiveness against viruses similar to **2019 Novel Coronavirus (Human Coronavirus)** on hard, non-porous surfaces. Therefore, **Sapphire** can be used against **2019 Novel Coronavirus** when used in accordance with the directions for use against **Human Poliovirus** on hard, non-porous surfaces. **Note:** Dwell time for disinfecting equals five minutes. Refer to the **CDC** website at <https://wwwnc.cdc.gov/travel/notices/alert/novel-coronavirus-china> for additional information.\*

**Features** One step solution for cleaning, disinfecting and deodorizing. Quickly removes dirt, grime, food residue, blood and other organic matter commonly found in hospitals and health care facilities on metal surfaces. It also eliminates odors leaving surfaces smelling clean and fresh. A worry-free solution that does not harm fabrics and tough on germs. Do not use on unpainted wood.

Organism	Kill Time	Organism	Kill Time
Aspergillus niger (ATCC 6275)	10 Min	Klebsiella pneumoniae New Delhi Metallo-Beta Lactamase (NDM-1) Carbapenem Resistant	2 Min
Avian Influenza Virus (H5N1) NIBRG-14	30 sec	Methicillin Resistant Staphylococcus aureus (MRSA) (ATCC 33591)	2 Min
Bovine Viral Diarrhea Virus (BVDV)	1 Min	Multi-Drug Resistant (MDR) Acinetobacter baumannii Ceftazidime and Gentamicin Resistant (ATCC BAA-1605)	2 Min
Canine Parvovirus	2 Min	Norovirus (Norwalk Virus)	2 Min
Duck Hepatitis B Virus (DHBV)	1 Min	<b>Poliovirus Type 1 (ATCC VR-1562)</b>	<b>5 Min</b>
Enterobacter aerogenes (ATCC 13048)	2 Min	Pseudomonas aeruginosa (ATCC 15442)	2 Min
Extended Spectrum Beta-Lactamase (ESBL) Escherichia coli (ATCC BAA-196)	2 Min	Rhinovirus Type 14 (ATCC VR-284)	2 Min
Feline Calicivirus (ATCC VR-782)	2 Min	Rhinovirus Type 39 (ATCC VR-340)	2 Min
Hepatitis B Virus (HBV)	1 Min	Salmonella enterica (Salmonella) (ATCC 10708)	2 Min
Hepatitis C Virus (HCV)	1 Min	Staphylococcus aureus (ATCC 6538)	2 Min
Human Immunodeficiency Virus Type-1 (HIV-1)	30 sec	Staphylococcus aureus (ATCC 6538)	2 Min
Human Rotavirus (ATCC VR-2018)	1 Min	Staphylococcus aureus (Staph) (ATCC 6538)	5 sec
Klebsiella pneumoniae (ATCC 4352)	5 sec	Vancomycin Resistant Enterococcus faecium (ATCC 51559)	2 Min