# spectrum®



# SAFETY DATA SHEET

Preparation Date: 5/07/2015 Product identifier Revision Date: 05/07/2015

Revision Number: G1

B1068 BENZALKONIUM CHLORIDE, 50 PERCENT SOLUTION, NF

#### Other means of identification

Synonyms: CAS #: RTECS # CI#:

Product code:

**Product Name:** 

No information available Mixture Not available Not available

#### Recommended use of the chemical and restrictions on use

Recommended use: Uses advised against	No information available. No information available
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000
Order Online At:	https://www.spectrumchemical.com
Emergency telephone number	Chemtrec 1-800-424-9300
Contact Person:	Martin LaBenz (West Coast)
Contact Person:	Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1B
Skin sensitization	Category 1B
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

#### Label elements

#### Danger

#### Hazard statements

Harmful if swallowed Causes severe skin burns and eye damage May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Flammable liquid and vapor



Hazards not otherwise classified (HNOC) Not Applicable

#### Other hazards

May be harmful in contact with skin

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/sprav In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves/protective clothing/eye protection/face protection Wear respiratory protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/ .? /equipment Use only non-sparking tools Take precautionary measures against static discharge

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician Specific treatment (see .? on this label)

#### Product code: B1068

Product name: BENZALKONIUM CHLORIDE, 50 PERCENT SOLUTION, In case of fire: Use CO2, dry chemical, or foam to extinguish. 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 doctor/physician. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Do NOT induce vomiting

# Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %	Trade Secret
Benzalkonium Chloride 8001-54-5	8001-54-5	50	*
Water 7732-18-5	7732-18-5	46	*
Ethyl Alcohol 200 proof 64-17-5	64-17-5	4	*

#### 4. FIRST AID MEASURES

First aid measures General Advice:	Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin Contact:	Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
Eye Contact:	Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Symptoms	<ul> <li>I effects, both acute and delayed</li> <li>Severe skin and eye irritation or burns. Causes eye damage. May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause chemical burns to the respiratory tract. Causes digestive (gastrointestinal) tract irritation. May cause gastrointestinal (digestive) tract burns. Can burn mouth, throat, and stomach. Dyspnea (Shortness of breath and difficulty breathing). May cause pulmonary edema. May affect the cardiovascular system. Central nervous system effects. May affect the liver. It may affect the kidneys.</li> </ul>		
Indication of any immediate medical Notes to Physician:	ention and special treatment needed eat symptomatically		
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a	od or body fluids. Wear gloves and other necessary protective clothing. Dispose of o-hazardous waste		
	5. FIRE-FIGHTING MEASURES		
Extinguishing Media Suitable Extinguishing Media:	Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam. Water spray.		
Unsuitable Extinguishing Media:	Do not use a solid (straight) water stream as it may scatter and spread fire.		
Specific hazards arising from	chemical		
Hazardous Combustion Products	Carbon oxides		
Specific hazards:	Flammable May be ignited by heat, sparks or flames Container explosion may occur under fire conditions or when heated Vapor may travel considerable distance to source of ignition and flash back Vapors may form explosive mixtures with air Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks)		
Special Protective Actions for	refighters		
Specific Methods:	Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.		
Special Protective Equipment for	efighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear		

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.			
Methods and material for containment and cleaning up				
Methods for containment	Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.			
Methods for cleaning up	Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.			

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store away from incompatible materials. Store in a segrated and approved area.

#### Incompatible Materials:

Strong oxidizing agents. Nitrates. Anionic sufactants.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### National occupational exposure limits

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Benzalkonium Chloride 8001-54-5	None	None	None	None
Water 7732-18-5	None	None	None	None

Ethyl Alcohol 200 proof		1000 ppm TWA	1000 ppm STEL	None
64-17-5	1900 mg/m³ TWA	1900 mg/m³ TWA		

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Benzalkonium Chloride 8001-54-5	None	None	None	None
Water 7732-18-5	None	None	None	None
Ethyl Alcohol 200 proof 64-17-5	1000 ppm TWA 1880 mg/m³ TWA	1000 ppm STEL	1000 ppm STEL	1000 ppm TWAEV 1880 mg/m³ TWAEV

#### **Australia and Mexico**

Components	Australia	Mexico
Benzalkonium Chloride	None	None
8001-54-5		
Water	None	None
7732-18-5		
Ethyl Alcohol 200 proof	1000 ppm TWA	1000 ppm TWA
64-17-5	1880 mg/m³ TWA	1900 mg/m³ TWA

#### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Face-shield
Skin and body protection:	Chemical resistant apron. Long sleeved clothing. Gloves.
Respiratory protection:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odor: Aromatic.

**Formula:** No information available

Flashpoint (°C/°F): 52.2°-56.1°C/126°-132.98°F

**Upper Explosion Limit (%):** No information available

Melting point/range(°C/°F): No information available

Bulk density: No information available

Density (g/cm3): 0.97 @ 25 deg. C

**VOC content (g/L):** No information available

Viscosity: No information available Appearance: No information available

**Taste** Bitter.

Flammability: flammable

Flash Point Tested according to: Closed cup

Autoignition Temperature (°C/°F): No information available

**Boiling point/range(°C/°F):** No information available

**Specific gravity:** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): The highest known value is 100 ppm (Ethyl alcohol 200 Proof)

**Miscibility:** No information available Color: Clear. Colorless.

Molecular/Formula weight: No information available

Flash point (°C): 52.2

Lower Explosion Limit (%): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

Vapor pressure @ 20°C (kPa): No information available

Vapor density: >1

Partition coefficient (n-octanol/water): No information available

**Solubility:** Easily soluble in cold water Easily soluble in hot water Partially soluble in diethyl ether Soluble in Acetone Soluble in Methanol

#### **10. STABILITY AND REACTIVITY**

Reactivity Reactive with strong oxidizing agents

Chemical stability Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Nitrates. Anionic sufactants.
Hazardous decomposition products:	No information available
Other Information	
Corrosivity:	No information available
Special Remarks on Corrosivity:	No information available

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Principal Routes of Exposure:

Eyes. Skin. Ingestion. Inhalation.

#### Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral) 479mg/kg

#### **Component Information**

#### Benzalkonium Chloride - 8001-54-5

LD50/oral/rat = = 240 mg/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

#### Water - 7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat LD50/oral/mouse = No information available LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No information available Other LD50 or LC50information = No information available

#### Ethyl Alcohol 200 proof - 64-17-5

LD50/oral/rat = 7060 mg/kg Oral LD50 Rat LD50/oral/mouse = 3450 mg/kg LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = 124.7 mg/L Inhalation LC50 Rat 4 h LC50/inhalation/mouse = 39000 mg/m<sup>3</sup>4 h Other LD50 or LC50information = >60000 ppm Inhalation LC50 Mouse 1 h 5900 mg/m<sup>3</sup>Inhalation LC50 Rat 6 h 20000 ppm Inhalation LC50 Rat 10 h 5560 mg/kg Oral LD50 Guinea Pig 6300 mg/kg Oral LD50 Rabbit

#### **Product Information**

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

Product code: B1068

Product name: BENZALKONIUM CHLORIDE, 50 PERCENT SOLUTION,

#### LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available

VALUE - Dust/Mist = No information available Symptoms

Skin Contact:	Causes severe irritation and burns. May be harmful in contact with skin. May cause allergic skin reaction.	
Eye Contact:	Causes severe eye irritation and possible burns.	
Inhalation Ingestion	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract and mucous membrane irritation with sore throat, coughing, shortness of breath, and delayed lung edema. May cause chemical burns to the respiratory tract. High vapor concentrations may cause nervous system effects. Harmful if swallowed. Causes gastrointestinal/digestive tract irritation and burns. May affect behavior (central nervous system depression, depression) and metabolism. May produce burning pains in the mouth, throat, and abdomen, profuse salivation,	
	muscle weakness. May also affect the respiratory system and cardiovascular system, liver and kidneys.	
Aspiration hazard	No information available	
Delayed and immediate effects as	s well as chronic effects from short and long-term exposure	
Chronic Toxicity	Prolonged or repeated skin contact may cause dermatitis. Repeated contact may cause allergic reactions in very susceptible persons Prolonged or repeated ingestion may cause cyanosis.	
Sensitization:	May cause sensitization by inhalation and skin contact	
Mutagenic Effects:	May affect genetic material Experiments with bacteria and/or yeast have shown mutagenic effects	

Carcinogenic effects: Not considered carcinogenic

Components IARC ACGIH -NTP **OSHA HCS -**Australia - Prohibited Australia - Notifiable Carcinogens Carcinogens Carcinogenic Carcinogenic Substances Substances Benzalkonium Chloride Not listed Not listed Not listed Not listed Not listed Not listed Water Not listed Not listed Not listed Not listed Not listed Not listed A3 Confirmed Not listed Ethyl Alcohol 200 proof Group 1 -Present Not listed Not listed Monograph 100E Animal [2012] in alcoholic Carcinogen with Unknown beverages Monograph 96 Relevance to [2010] in alcoholic Humans beverages

Product code: B1068

Reproductive toxicity	No data is available
Reproductive Effects:	May cause adverse reproductive effects based on animal data Benzalkonium Chloride is an active ingredient in vaginal spermacides. When applied in the vagina of pregnant rats at much higher doses than those used in spermacides, it caused increased resorptions leading to fetal death, and reduced litter size and weight. No adverse reproductive effects have been reported after oral treatment of rats and guinea pigs and dermal administration to rats May impair fertility May cause harm to the unborn child
Developmental Effects: Teratogenic Effects:	No information available No information available
Specific Target Organ Toxicity	
STOT - single exposure STOT - repeated exposure Target Organs:	No information available Causes damage to organs through prolonged or repeated exposure. Cardiovascular system. Gastrointestinal tract. Heart. Kidneys. Reproductive System. Skin.

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Ecotoxicity effects:	Aquatic environment.
Benzalkonium Chloride - 8001-54- Freshwater Fish Species Data:	5 2.4 mg/L LC50 Oryzias latipes 96 h semi-static 1
riesiiwalei risii Species Dala.	0.223-0.46 mg/L LC50 Lepomis macrochirus 96 h static 1 0.823-1.61 mg/L LC50 Oncorhynchus mykiss 96 h static 1 1.3 mg/L LC50 Poecilia reticulata 96 h semi-static 1
Ethyl Alcohol 200 proof - 64-17-5	
Freshwater Fish Species Data:	12.0 - 16.0 mL/L LC50 Oncorhynchus mykiss 96 h static 1 13400 - 15100 mg/L LC50 Pimephales promelas 96 h flow-through 1 100 mg/L LC50 Pimephales promelas 96 h static 1
Water Flea Data:	9268 - 14221 mg/L LC50 Daphnia magna 48 h 10800 mg/L EC50 Daphnia magna 24 h 2 mg/L EC50 Daphnia magna 48 h
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available

# Mobility: No information available

# **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

#### **13. DISPOSAL CONSIDERATIONS**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Benzalkonium Chloride	None	None	None	None
Water	None	None	None	None
Ethyl Alcohol 200 proof	None	None	None	None

#### **14. TRANSPORT INFORMATION**

DOT UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: ERG No: Marine Pollutant DOT RQ (Ibs): Symbol(s):	UN2920 Corrosive liquids, flammable, n.o.s. (Benzalkonium Chloride solution) 8 3 II 132 No data available No information available G
TDG (Canada) UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Description:	UN2920 Corrosive liquid, flammable, n.o.s. 8 (3) II No information available
ADR UN-No: Proper Shipping Name: Hazard Class: Packing Group: Subsidiary Risk: Classification Code: Description: CEFIC Tremcard No:	UN2920 Corrosive liquid, flammable, n.o.s. 8 II 3 No information available No information available No information available
IMO / IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Description: IMDG Page: Marine Pollutant EMS: MFAG:	UN2920 Corrosive liquid, flammable, n.o.s. 8 3 II No information available No information available F-E No information available

#### 14. TRANSPORT INFORMATION No information available

**Maximum Quantity:** 

UN-No: Proper Shipping Name:	UN2920 Corrosive liquid, flammable, n.o.s.
Hazard Class:	8
Subsidiary Risk:	3
Packing Group:	II
Classification Code:	No information available
Description:	No information available

**ICAO** 

RID

UN2920
Corrosive liquid, flammable, n.o.s.
8
3
II
No information available

#### ΙΑΤΑ

UN-No:	UN2920
Proper Shipping Name:	Corrosive liquid, flammable, n.o.s.
Hazard Class:	8
Subsidiary Risk:	3
Packing Group:	II
ERC Code:	85
ERG Code:	8F
Description:	No information available

#### **15. REGULATORY INFORMATION**

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Benzalkonium Chloride	Not Listed	Present KE- 00790	Present	Not present	Present	Present	Not present
Water	Present	Present KE- 35400	Present	Not present	Present	Present	Present 231-791-2
Ethyl Alcohol 200 proof	Present	KE-13217	Present	(2)-202	Present	Present	Present 200-578-6

#### **U.S. Regulations**

Ethyl Alcohol 200 proof

Massachusetts RTK: Present New Jersey RTK Hazardous Substance List: 0844 Pennsylvania RTK: Present Minnesota - Hazardous Substance List: Present Louisana Reportable Quantity List for Pollutants: Present (listed as Volatile Organic Compounds) California Directors List of Hazardous Substances: Present FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1293 - 21 CFR - Total Food Additives 169 175 169 176 169 177 169 181 172 340 172 560 172

**FDA - 21 CFR - Total Food Additives** 169.175 169.176 169.177 169.181 172.340 172.560 172.580 175.105 176.180 176.200 177.1200 177.1650 178.1010 184.1293 73.30 73.345 73.615

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Benzalkonium Chloride	Not Listed	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed	Not Listed
Ethyl Alcohol 200 proof	Not Listed	developmental toxicity	Not Listed	Not Listed
		(Ethyl alcohol in alcoholic		
		beverages)		

#### CERCLA/SARA

•	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
Benzalkonium Chloride	None	None	None	None	None
Water	None	None	None	None	None
Ethyl Alcohol 200 proof	None	None	None	None	None

#### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	ant TSCA 8(d) -Health and Safety Reporting	
Benzalkonium Chloride	Not Applicable	Not Applicable	
Water	Not Applicable	Not Applicable	
Ethyl Alcohol 200 proof	Not Applicable	Not Applicable	

#### Canada

#### WHMIS hazard class:

B3 Combustible liquid D1B Toxic materials E Corrosive material

#### Benzalkonium Chloride

#### D1B E

Water

Uncontrolled product according to WHMIS classification criteria

Ethyl Alcohol 200 proof

B2 D2B

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Ethyl Alcohol 200 proof	0.1 %

#### Inventory

Components	Canada (DSL)	Canada (NDSL)
Benzalkonium Chloride	Present	Not Listed
Water	Present	Not Listed
Ethyl Alcohol 200 proof	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory	
		Reporting	
Benzalkonium Chloride	Not listed	Not listed	
Water	Not listed	Not listed	
Ethyl Alcohol 200 proof	Not listed	Not listed	

#### **EU Classification**

#### R-phrase(s)

R10 - Flammable.

R34 - Causes burns.

R50 - Very toxic to aquatic organisms.

R21/22 - Harmful in contact with skin and if swallowed.

#### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S33 - Take precautionary measures against static discharges.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S37/39 - Wear suitable gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
Benzalkonium Chloride		No information	
Water		No information	
Ethyl Alcohol 200 proof	F; R11	No information	S7 S16

#### The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

T - Toxic

C - Corrosive.



# 16. OTHER INFORMATION

#### **16. OTHER INFORMATION**

5/07/2015

05/07/2015

Sonia Owen

Preparation Date: Revision Date: Prepared by:

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet