

# SAFETY DATA SHEET

## SPECTRUS\* CT1306

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### 1. Identification

|                               |                 |
|-------------------------------|-----------------|
| Product identifier            | SPECTRUS CT1306 |
| Other means of identification | None.           |
| Recommended use               | Biocide         |
| Recommended restrictions      | None known.     |

#### Company/undertaking identification

GE Betz, Inc.  
4636 Somerton Road  
Trevose, PA 19053  
T 215 355 3300, F 215 953 5524

#### Emergency telephone

(800) 877 1940

### 2. Hazard(s) identification

|                      |                                   |             |
|----------------------|-----------------------------------|-------------|
| Physical hazards     | Not classified.                   |             |
| Health hazards       | Acute toxicity, oral              | Category 4  |
|                      | Skin corrosion/irritation         | Category 1B |
|                      | Serious eye damage/eye irritation | Category 1  |
| OSHA defined hazards | Not classified.                   |             |

#### Label elements



|   |  |
|---|--|
| Signal word                               | Danger   |
| Hazard statement                          | Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage.  |
| Precautionary statement                   |  |
| Prevention                                | Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.   |
| Response                                  | If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. |
| Storage                                   | Store locked up.   |
| Disposal                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.  |
| Hazard(s) not otherwise classified (HNOC) | None known.  |
| Supplemental information                  | None.  |

### 3. Composition/information on ingredients

#### Mixtures

| Components                                     | CAS #      | Percent |
|--|------------|---------|
| (C12-18)Alkyl dimethyl benzyl ammoniumchloride | 68391-01-5 | 40 - 60 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments** Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this SDS for our assessment of the potential hazards of this formulation.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.  |
| <b>Ingestion</b>  | Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.  |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Foam. Powder. Carbon dioxide (CO <sub>2</sub> ).  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.  |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.  |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers / tanks with water spray. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

### 6. Accidental release measures

|  |   |
|--|---|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | Use water spray to reduce vapors or divert vapor cloud drift.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground.  |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Use care in handling/storage. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.  |

## 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Occupational exposure limits</b>  | No exposure limits noted for ingredient(s).  |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Eye wash facilities and emergency shower must be available when handling this product. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Wear safety glasses with side shields (or goggles) and a face shield.  |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | Wear appropriate chemical resistant gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Suitable gloves can be recommended by the glove supplier. Glove selection must take into account any solvents and other hazards present.   |
| <b>Other</b>   | Wear appropriate chemical resistant clothing.  |
| <b>Respiratory protection</b>  | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.                    |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.  |
| <b>General hygiene considerations</b>  | Keep away from food and drink. 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

|   |                            |
|---|----------------------------|
| <b>Appearance</b>                                   |                            |
| <b>Color</b>  | Colorless to yellow        |
| <b>Physical state</b>                               | Liquid                     |
| <b>Odor</b>   | Mild                       |
| <b>Odor threshold</b>                               | Not available.             |
| <b>pH (concentrated product)</b>                    | 7.5                        |
| <b>pH in aqueous solution</b>                       | 7.5 (5% SOL.)              |
| <b>Melting point/freezing point</b>                 | 18 °F (-8 °C)              |
| <b>Initial boiling point and boiling range</b>      | 220 °F (104 °C)            |
| <b>Flash point</b>                                  | > 200 °F (> 93 °C) P-M(CC) |
| <b>Evaporation rate</b>                             | < 1 (Ether = 1)            |
| <b>Flammability (solid, gas)</b>                    | Not available.             |
| <b>Upper/lower flammability or explosive limits</b> |                            |
| <b>Flammability limit - lower (%)</b>               | Not available.             |
| <b>Flammability limit - upper (%)</b>               | Not available.             |
| <b>Explosive limit - lower (%)</b>                  | Not available.             |
| <b>Explosive limit - upper (%)</b>                  | Not available.             |
| <b>Vapor pressure</b>                               | 24 mm Hg                   |
| <b>Vapor pressure temp.</b>                         | 70 °F (21 °C)              |

|   |                   |
|---|-------------------|
| Vapor density                           | < 1 (Air = 1)     |
| Relative density                        | 0.98              |
| Relative density temperature            | 70 °F (21 °C)     |
| Solubility(ies)                         |                   |
| Solubility (water)                      | 100 %             |
| Partition coefficient (n-octanol/water) | Not available.    |
| Auto-ignition temperature               | Not available.    |
| Decomposition temperature               | Not available.    |
| Viscosity                               | 140 cps           |
| Viscosity temperature                   | 70 °F (21 °C)     |
| Other information                       |                   |
| Explosive properties                    | Not explosive.    |
| Oxidizing properties                    | Not oxidizing.    |
| Percent volatile                        | 0 (SUPPLIER DATA) |
| Pour point                              | 23 °F (-5 °C)     |
| Specific gravity                        | 0.981             |

## 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 | Hazardous polymerization does not occur.   |
| Conditions to avoid                | Avoid temperatures exceeding the flash point. Contact with incompatible materials. None under normal conditions. |
| Incompatible materials             | Strong oxidizing agents.   |
| Hazardous decomposition products   | No hazardous decomposition products are known.   |

## 11. Toxicological information

### Information on likely routes of exposure

|  |   |
|--|---|
| Inhalation   | May cause irritation to the respiratory system.   |
| Skin contact   | Causes severe skin burns.   |
| Eye contact  | Causes serious eye damage.  |
| Ingestion  | Causes digestive tract burns. Harmful if swallowed.   |
| Symptoms related to the physical, chemical and toxicological characteristics | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |

### Information on toxicological effects

|                |                       |
|----------------|-----------------------|
| Acute toxicity | Harmful if swallowed. |
|----------------|-----------------------|

| Product   | Species | Test Results              |
|---|---------|---------------------------|
| SPECTRUS CT1306 (CAS Mixture)                                   |         |                           |
| <b>Acute</b>  |         |                           |
| <i>Dermal</i>   |         |                           |
| LD50  | Rabbit  | 3560 mg/kg                |
| <i>Oral</i>   |         |                           |
| LD50  | Rat     | 430 mg/kg                 |
| Components  | Species | Test Results              |
| (C12-18)Alkyl dimethyl benzyl ammoniumchloride (CAS 68391-01-5) |         |                           |
| <b>Acute</b>  |         |                           |
| <i>Inhalation</i>   |         |                           |
| LC50  | Rat     | 0.054 - 0.51 mg/L, 4 Hour |

| Components   | Species | Test Results |
|--------------|---------|--------------|
| Oral<br>LD50 | Rat     | 305 mg/kg    |

\* Estimates for product may be based on additional component data not shown.

|   |  |
|---|--|
| <b>Skin corrosion/irritation</b>                                      | Causes severe skin burns.  |
| <b>Serious eye damage/eye irritation</b>                              | Causes serious eye damage.   |
| <b>Respiratory or skin sensitization</b>                              |  |
| <b>Respiratory sensitization</b>                                      | This product is not expected to cause respiratory sensitization.   |
| <b>Skin sensitization</b>   | This product is not expected to cause skin sensitization.  |
| <b>Germ cell mutagenicity</b>   | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| <b>Carcinogenicity</b>  | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |  |
| Not listed.   |  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |  |
| Not regulated.  |  |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    |  |
| Not listed.   |  |
| <b>Reproductive toxicity</b>  | This product is not expected to cause reproductive or developmental effects.                                     |
| <b>Specific target organ toxicity - single exposure</b>               | Not classified.  |
| <b>Specific target organ toxicity - repeated exposure</b>             | Not classified.  |
| <b>Aspiration hazard</b>  | Not likely, due to the form of the product.  |

## 12. Ecological information

### Ecotoxicity

| Product                              | Species            | Test Results   |
|--------------------------------------|--------------------|--|
| SPECTRUS CT1306 (CAS Mixture)        |                    |  |
|                                      | LC50               | Fathead Minnow                                       |
|                                      |                    | 0.72 mg/l, Flow-Thru Bioassay, 96 hour, (Estimated)  |
|                                      | NOEL               | Fathead Minnow                                       |
|                                      |                    | 0.41 mg/l, Flow-Thru Bioassay, 96 hour, (Estimated)  |
| <b>Aquatic</b>                       |                    |  |
| Crustacea                            | LC50               | Daphnia magna  |
|                                      |                    | 0.04 mg/l, Flow-Thru Bioassay, 48 hour, (Estimated)  |
|                                      | NOEL               | Daphnia magna  |
|                                      |                    | 0.026 mg/l, Flow-Thru Bioassay, 48 hour, (Estimated) |
| Fish                                 | LC50               | Rainbow Trout  |
|                                      |                    | 2 mg/l, Flow-Thru Bioassay, 96 hour, (Estimated)     |
|                                      | NOEL               | Rainbow Trout  |
|                                      |                    | 1.2 mg/l, Flow-Thru Bioassay, 96 hour, (Estimated)   |
| <b>Bioaccumulative potential</b>     | No data available. |  |
| <b>Mobility in soil</b>              | No data available. |  |
| <b>Other adverse effects</b>         | Not available.     |  |
| <b>Persistence and degradability</b> |                    |  |

## 13. Disposal considerations

|                                   |   |
|-----------------------------------|---|
| <b>Disposal instructions</b>      | Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of in approved pesticide facility or according to label instructions. |
| <b>Local disposal regulations</b> | Dispose in accordance with all applicable regulations.  |
| <b>Hazardous waste code</b>       | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |

**Waste from residues / unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

**DOT**

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1903  |
| <b>UN proper shipping name</b>      | Disinfectants, liquid, corrosive n.o.s. ((C12-18)Alkyl Dimethyl Benzyl Ammonium Chloride) |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling.                   |
| <b>ERG number</b>                   | 153   |

Some containers may be exempt from Dangerous Goods/Hazmat Transport Regulations, please check BOL for exact container classification.

**IATA**

|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1903  |
| <b>UN proper shipping name</b>      | Disinfectant, liquid, corrosive, n.o.s. ((C12-18)Alkyl Dimethyl Benzyl Ammonium Chloride) |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        | Yes   |
| <b>ERG Code</b>                     | 153   |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling.                   |

**IMDG**

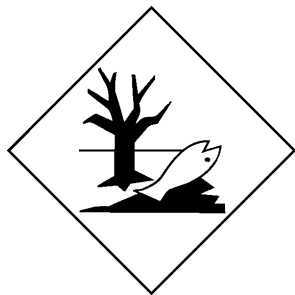
|                                     |   |
|-------------------------------------|---|
| <b>UN number</b>                    | UN1903  |
| <b>UN proper shipping name</b>      | DISINFECTANT, LIQUID, CORROSIVE, N.O.S. ((C12-18)Alkyl Dimethyl Benzyl Ammonium Chloride), MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |   |
| <b>Class</b>                        | 8   |
| <b>Subsidiary risk</b>              | -   |
| <b>Packing group</b>                | III   |
| <b>Environmental hazards</b>        |   |
| <b>Marine pollutant</b>             | Yes   |
| <b>EmS</b>                          | F-A, S-B  |
| <b>Special precautions for user</b> | Read safety instructions, SDS and emergency procedures before handling.                                     |

**DOT**



**IATA; IMDG**





## 15. Regulatory information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This is an EPA registered biocide and is exempt from TSCA inventory requirements. See FIFRA registry number.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

#### 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.

### Inventory status

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| 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).

### FIFRA registration number

10324-21-3876

### TSCA

This is an EPA registered biocide and is exempt from TSCA inventory requirements.

**FIFRA hazard 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:

DANGER  
Corrosive  
Causes irreversible eye damage and skin burns  
May be fatal if inhaled  
Harmful if swallowed or absorbed through the skin

**US state regulations****US - Massachusetts RTK - Substance List**

Not regulated.

**US - Pennsylvania RTK - Hazardous Substances**

Not regulated.

**US - Rhode Island RTK**

Not regulated.

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

**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.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

No ingredient listed.

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

No ingredient listed.

**US - California Proposition 65 - CRT: Listed date/Female reproductive toxin**

No ingredient listed.

**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

No ingredient listed.

**16. Other information, including date of preparation or last revision**

**Issue date** Oct-12-2016

**Revision date** Oct-12-2016

**Version #** 1.0

**List of abbreviations**

CAS: Chemical Abstract Service Registration Number  
TSRN indicates a Trade Secret Registry Number is used in place of the CAS number.  
ACGIH: American Conference of Governmental Industrial Hygienists  
NOEL: No Observed Effect Level  
STEL: Short Term Exposure Limit  
LC50: Lethal Concentration, 50%  
LD50: Lethal Dose, 50%  
TWA: Time Weighted Average  
BOD: Biochemical Oxygen Demand  
COD: Chemical Oxygen Demand  
TOC: Total Organic Carbon  
IATA: International Air Transport Association  
IMDG: International Maritime Dangerous Goods Code

**References:** No data available

**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.



**Revision information**

Product and Company Identification: Physical States  
Composition / Information on Ingredients: Ingredients  
Toxicological Information: Toxicological Data  
Transport Information: Material Transportation Information  
HazReg Data: North America  
GHS: Classification

**Prepared by**

This SDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).

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