# SAFETY DATA SHEET

# 1. Identification

| Product identifier                            | OMNIPRO TITAN-Q DISINFECTANT                                |
|---|---|
| Other means of identification<br>Product Code | 2658-6723   |
| Product registration<br>number                | 10324-80-92595  |
| Recommended use<br>Recommended restrictions   | FIFRA Regulated End Use Product (EUP)<br>For Reference Only |

| Manufacturer/Importer/Supplier/Distributor information |  |  |
|--|--|--|
| Manufacturer   |  |  |

| Company name<br>Address | Bioesque Solutions<br>2091 NE 36th Street #50548<br>Lighthouse Point, FL 33074<br>United States |  |
|-------------------------|---|--|
| Telephone               | 1-800-921-4634  |  |
| E-mail                  | info@bioesquesolutions.com  |  |
| Emergency phone number  | CHEMTREC International: 1-703-527-3887  |  |
| CHEMTREC USA:           | 1-800-424-9300  |  |

# 2. Hazard(s) identification

| Physical hazards      | Not classified.  |             |
|-----------------------|--|-------------|
| Health hazards        | Skin corrosion/irritation                              | Category 1B |
|                       | Serious eye damage/eye irritation                      | Category 1  |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard     | Category 1  |
|                       | Hazardous to the aquatic environment, long-term hazard | Category 2  |
| OSHA defined hazards  | Not classified.  |             |

Label elements



| Signal word                         | Danger   |
|-------------------------------------|--|
| Hazard statement                    | Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.   |
| Precautionary statement             |  |
| Prevention                          | Do not breathe mist/vapors. Wash thoroughly after handling. Avoid release to the environment. 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. Collect spillage. |
| Storage                             | Store locked up.   |
| Disposal<br>Hazard(s) not otherwise | Dispose of contents/container in accordance with local/regional/national/international regulations. classified (HNOC)  |

None known.

## 3. Composition/information on ingredients

#### Mixtures

| Mixtures  |  | 040 ·                            | <b>6</b> ′         |
|---|--|----------------------------------|--------------------|
| Chemical name   | Common name and synonyms   | CAS number                       | %                  |
| 1-decanaminium,<br>n,n-dimethyl-n-octyl-, Chloride                              |  | 32426-11-2                       | 1 - < 3            |
| Ethanol   |  | 64-17-5                          | 1 - < 3            |
| Quaternary Ammonium<br>Compounds,<br>Benzyl-C12-C16-alkyldimethyl,<br>Chlorides |  | 68424-85-1                       | 1 - < 3            |
| Surfactant  |  | -                                | 1 - < 3            |
| Tetrasodium<br>Ethylenediaminetetraacetate                                      |  | 64-02-8                          | 1 - < 3            |
| 1-octanaminium,<br>N,n-dimethyl-n-octyl-, Chloride                              |  | 5538-94-3                        | < 1                |
| Didecyldimethylammonium Chlo  | ride   | 7173-51-5                        | < 1                |
| Other components below reporta  | able levels  |                                  | 80 - < 90          |
| Composition comments  | Occupational Exposure Limits for residuals a   | re listed in Section 8.          |                    |
| 4. First-aid measures   |  |                                  |                    |
| Inhalation  | Move to fresh air. Call a physician if symptom   | ns develop or persist.           |                    |
| Skin contact  | 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.   |                                  |                    |
| Eye contact   | 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.  |                                  |                    |
| Ingestion   | 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.  |                                  |                    |
| Most important<br>symptoms/effects, acute and<br>delayed                        | 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.  |                                  |                    |
| Indication of immediate<br>medical attention and special<br>treatment needed    | 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 under observation. Symptoms may be delayed. |                                  |                    |
| General information   | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.   |                                  |                    |
| 5. Fire-fighting measures   |  |                                  |                    |
| Suitable extinguishing media  | Water fog. Foam. Dry chemical powder. Carl   | bon dioxide (CO2).               |                    |
| Unsuitable extinguishing media  | Do not use water jet as an extinguisher, as this will spread the fire.   |                                  |                    |
| Specific hazards arising from the chemical                                      | During fire, gases hazardous to health may be formed.  |                                  |                    |
| Special protective equipment<br>and precautions for firefighters                | Self-contained breathing apparatus and full p  | protective clothing must be worr | n in case of fire. |
| Fire fighting<br>equipment/instructions   | Move containers from fire area if you can do   | so without risk.                 |                    |
|   |  |                                  |                    |
| Specific methods  | Use standard firefighting procedures and con   | nsider the hazards of other invo | lved materials.    |

#### 6. Accidental release measures

Personal precautions,<br/>protective equipment and<br/>emergency proceduresKeep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear<br/>appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not<br/>touch damaged containers or spilled material unless wearing appropriate protective clothing.<br/>Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be<br/>contained. For personal protection, see section 8 of the SDS.

| Methods and materials for<br>containment and cleaning up     | This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.  |
|--|---|
|  | 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.                         |
|  | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  |
|  | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.   |
| Environmental precautions                                    | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.                        |
| 7. Handling and storage                                      |   |
| Precautions for safe handling                                | Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure.<br>Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to<br>the environment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).   |

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Components                      | Туре   | Value                       |  |
|---------------------------------|--|-----------------------------|--|
| Ethanol (CAS 64-17-5)           | PEL  | 1900 mg/m3                  |  |
|                                 |  | 1000 ppm                    |  |
| US. ACGIH Threshold Lim         | it Values  |                             |  |
| Components                      | Туре   | Value                       |  |
| Ethanol (CAS 64-17-5)           | STEL   | 1000 ppm                    |  |
| US. NIOSH: Pocket Guide         | to Chemical Hazards  |                             |  |
| Components                      | Туре   | Value                       |  |
| Ethanol (CAS 64-17-5)           | TWA  | 1900 mg/m3                  |  |
|                                 |  | 1000 ppm                    |  |
| logical limit values            | No biological exposure limits noted  | for the ingredient(s).      |  |
| oropriate engineering<br>htrols | 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. Eye wash facilities and emergency shower must be available when handling this product. |                             |  |
| ividual protection measure      | s, such as personal protective equipr  | nent                        |  |
| Eye/face protection             | Wear safety glasses with side shields (or goggles) and a face shield.  |                             |  |
| Skin protection                 |  |                             |  |
| Hand protection                 | Wear appropriate chemical resistan   | t gloves.                   |  |
| Other                           | Wear appropriate chemical resistant clothing.  |                             |  |
| Respiratory protection          | In case of insufficient ventilation, wear suitable respiratory equipment.  |                             |  |
| Thermal hazards                 | Wear appropriate thermal protective  | e clothing, when necessary. |  |
| neral hygiene<br>Isiderations   | Always observe good personal hygiene measures, such as washing after handling the material<br>and before eating, drinking, and/or smoking. Routinely wash work clothing and protective<br>equipment to remove contaminants.  |                             |  |

### 9. Physical and chemical properties

Appearance

Physical state

Liquid.

|                                     | Liquid.  |
|-------------------------------------|--|
| Form                                | Clear. Colorless.  |
| Color                               | Not available.   |
| Odor                                |  |
| Odor threshold                      | Not available.   |
| рН                                  | 10 - 12 (1% soln.)   |
| Melting point/freezing point        | Not available.   |
| Initial boiling point and boiling   | > 204.8 °F (> 96 °C)   |
| range                               |  |
| Flash point                         | None to boiling.   |
| Evaporation rate                    | Not available.   |
| Flammability (solid, gas)           | Not applicable.  |
| Upper/lower flammability or exp     | losive limits  |
| Flammability limit - lower          | Not available.   |
| (%)                                 |  |
| Flammability limit - upper<br>(%)   | Not available.   |
| (70)                                |  |
| Explosive limit - lower (%)         | Not available.   |
| Explosive limit - upper (%)         | Not available.   |
| Vapor pressure                      | Not available.   |
| Vapor density                       | Not available.   |
| Relative density                    | Not available.   |
| Solubility(ies)                     |  |
| Solubility (water)                  | Miscible.  |
| Partition coefficient               | Not available.   |
| (n-octanol/water)                   |  |
| Auto-ignition temperature           | Not available.   |
| Decomposition temperature           | Not available.   |
| Viscosity                           | < 5 cSt @25°C  |
| Other information                   |  |
| Explosive properties                | Not explosive.   |
| Oxidizing properties                | Not oxidizing.   |
| Specific gravity                    | 1.013  |
| 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            | Hazardous polymerization does not occur.   |
| reactions                           |  |
| Conditions to avoid                 | Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. |
| Incompatible materials              | Strong oxidizing agents.   |
| Hazardous decomposition<br>products | No hazardous decomposition products are known.   |
|                                     |  |

# 11. Toxicological information

#### Information on likely routes of exposure

| Inhalation   | May cause irritation to the respiratory system. Prolonged inhalation may be harmful. |
|--------------|--|
| Skin contact | Causes severe skin burns.  |

Eye contact

Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Causes serious eye damage.

Causes digestive tract burns.

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.

| Acute toxicity            | Not known.                              |                |  |
|---------------------------|---|----------------|--|
| Product                   | Species                                 | Test Results   |  |
| MAQUAT® 5.5-FD            | opecies                                 | Test Results   |  |
| Acute                     |   |                |  |
| Dermal                    |   |                |  |
| Liquid                    |   |                |  |
|                           |   |                |  |
| LD50                      | Rabbit                                  | > 2 g/kg       |  |
| Oral                      |   |                |  |
| Liquid                    |   |                |  |
| LD50                      | Rat                                     | 2.72 g/kg      |  |
| Components                | Species                                 | Test Results   |  |
| -decanaminium, n,n-dimet  | hyl-n-octyl-, Chloride (CAS 32426-11-2) |                |  |
| Acute                     |   |                |  |
| Dermal                    |   |                |  |
| Liquid                    |   |                |  |
|                           |   |                |  |
| LD50                      | Rabbit                                  | 2930 mg/kg     |  |
| LD50                      | Rat                                     | 3342 mg/kg     |  |
| Oral                      |   |                |  |
| Liquid                    |   |                |  |
| LD50                      | Rat                                     | 262 mg/kg      |  |
|                           |   | 238 mg/kg      |  |
| l-octanaminium, N,n-dimet | hyl-n-octyl-, Chloride (CAS 5538-94-3)  |                |  |
| <u>Acute</u>              |   |                |  |
| Dermal                    |   |                |  |
| LD50                      | Rabbit                                  | 2930 mg/kg     |  |
| Inhalation                |   |                |  |
| Mist                      |   |                |  |
| LC50                      | Rat                                     | > 10 mg/l, 1 h |  |
| Oral                      |   |                |  |
| Liquid                    |   |                |  |
| LD50                      | Rat                                     | 262 mg/kg      |  |
|                           |   | 238 mg/kg      |  |
| Didecyldimethylammonium   | Chloride (CAS 7173-51-5)                |                |  |
| <u>Acute</u>              |   |                |  |
| Dermal                    |   |                |  |
| Liquid                    |   |                |  |
| LD50                      | Rabbit                                  | 2930 mg/kg     |  |
| LD50                      | Rat                                     | 3342 mg/kg     |  |
| Oral                      |   |                |  |
| Liquid                    |   |                |  |
| LD50                      | Rat                                     | 262 mg/kg      |  |
|                           |   | 238 mg/kg      |  |
| Ethanol (CAS 64-17-5)     |   |                |  |
|                           |   |                |  |
| Acute                     |   |                |  |
| <u>Acute</u><br>Dermal    |   |                |  |
|                           | Rabbit                                  |                |  |

#### Inhalation

Vapor LC50

Rat

| Components                                       | Species  | Test Results           |
|--|--|------------------------|
| Oral   |  |                        |
| LD50   | Rat  | 6.2 g/kg               |
| Quaternary Ammonium Compoun                      | ds, Benzyl-C12-C16-alkyldimethyl, Chlori   | des (CAS 68424-85-1)   |
| Acute  |  |                        |
| Dermal   |  |                        |
| Liquid   |  |                        |
| LD50   | Rabbit   | 3413 mg/kg             |
| LD50   | Rat  | 930 mg/kg              |
| Oral   |  |                        |
| Liquid   | Det  | 705 //                 |
| LD50   | Rat  | 795 mg/kg              |
| LD50   | Rat  | 304.5 mg/kg            |
| Surfactant                                       |  |                        |
| Acute  |  |                        |
| <b>Dermal</b><br>LD50                            | Rabbit   | > 2000 mg/kg 24 Hours  |
|  | Rabbit   | > 2000 mg/kg, 24 Hours |
| Inhalation                                       |  |                        |
| Vapor<br>LC50                                    | Rat  | > 100 mg/m3, 6 Hours   |
| Oral   | Nat  |                        |
| LD50   | Rat  | 3488 mg/kg             |
| Tetrasodium Ethylenediaminetetra                 |  | 0.00 mg                |
| Acute  | aceiale (CAS 04-02-0)  |                        |
| Inhalation                                       |  |                        |
| LOEC   | Rat  | 30 mg/m3               |
| Oral   |  |                        |
| LD50   | Rat  | 1780 - 2000 mg/kg      |
|  |  | 1210 - 1780 mg/kg      |
| Skin corrosion/irritation                        | Causes severe skin burns and eye dam   |                        |
| Serious eye damage/eye irritation                | Causes serious eye damage.   |                        |
| Respiratory or skin sensitization                | ı  |                        |
| De autor te constation d'autor                   |  |                        |
| Respiratory sensitization                        | Not a respiratory sensitizer.  | kin consitization      |
| Skin sensitization                               | This product is not expected to cause s  |                        |
| Germ cell mutagenicity                           | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |                        |
| Carcinogenicity                                  | No data available to indicate product or any components present at greater than 0.1% are carcinogenic.           |                        |
| IARC Monographs. Overall<br>Not listed.          | Evaluation of Carcinogenicity  |                        |
|  | ed Substances (29 CFR 1910.1001-1053)  |                        |
| Not listed.                                      | , , , , , , , , , , , , , , , , , , ,  |                        |
| US. National Toxicology Pro                      | ogram (NTP) Report on Carcinogens  |                        |
| Not listed.                                      |  |                        |
| Reproductive toxicity                            | Possible reproductive hazard.  |                        |
| Specific target organ toxicity - single exposure | Not available.   |                        |
| Specific target organ toxicity -                 | Not classified.  |                        |

Aspiration hazard Chronic effects Not an aspiration hazard. Prolonged inhalation may be harmful.

# 12. Ecological information

Ecotoxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

| Components            |                       | Species                                  | Test Results               |
|-----------------------|-----------------------|--|----------------------------|
| 1-decanaminium, n,n-c | dimethyl-n-octyl-, C  | hloride (CAS 32426-11-2)                 |                            |
| Aquatic               |                       |  |                            |
| Acute                 |                       |  |                            |
| Fish                  | LC50                  | Bluegill (Lepomis macrochirus)           | 0.032 mg/l, 96 h           |
| Chronic               |                       |  |                            |
| Crustacea             | NOEC                  | Daphnia                                  | 0.01 mg/l                  |
| 1-octanaminium, N,n-d | limethyl-n-octyl-, Cl | hloride (CAS 5538-94-3)                  |                            |
| Aquatic               |                       |  |                            |
| Acute                 |                       |  |                            |
| Crustacea             | LC50                  | Daphnia magna                            | 0.1 mg/l, 48 h             |
| Fish                  | LC50                  | Bluegill (Lepomis macrochirus)           | 0.032 mg/l, 96 h           |
|                       |                       | Oncorhynchus mykiss                      | 0.35 mg/l, 96 h            |
| Chronic               |                       |  |                            |
| Crustacea             | NOEC                  | Daphnia                                  | 0.01 mg/l                  |
| Didecyldimethylammo   | nium Chloride (CAS    | S 7173-51-5)                             |                            |
| Aquatic               | ``                    | · · · · · · · · · · · · · · · · · · ·    |                            |
| Acute                 |                       |  |                            |
| Algae                 | EC50                  | Algae                                    | 0.062 mg/l, 72 h           |
| Crustacea             | LC50                  | Daphnia                                  | 0.057 mg/l, 48 h           |
| Fish                  | LC50                  | Bluegill (Lepomis macrochirus)           | 0.032 mg/l, 96 h           |
|                       |                       | Danio rerio                              | 0.97 mg/l, 96 h            |
| Chronic               |                       |  |                            |
| Crustacea             | NOEC                  | Daphnia                                  | 0.021 mg/l, 21 d           |
|                       |                       |  | 0.01 mg/l, 21 d            |
| Ethanol (CAS 64-17-5) | )                     |  |                            |
| Aquatic               |                       |  |                            |
| Crustacea             | EC50                  | Water flea (Daphnia magna)               | > 10000 mg/l, 48 hours     |
| Fish                  | LC50                  | Fathead minnow (Pimephales prome         | elas) > 100 mg/l, 96 hours |
| Quaternary Ammoniun   | n Compounds. Ben      | zyl-C12-C16-alkyldimethyl, Chlorides (CA | S 68424-85-1)              |
| Aquatic               | , , <b></b> .         |  | ,                          |
| Acute                 |                       |  |                            |
| Fish                  | LC50                  | Bluegill (Lepomis macrochirus)           | 0.515 mg/l                 |
| Chronic               |                       |  |                            |
| Crustacea             | NOEL                  | Daphnia                                  | 0.0042 mg/l                |
| Surfactant            |                       |  |                            |
|                       |                       |  |                            |
| Aquatic               |                       |  |                            |
| Acute                 |                       | Algoo                                    | 14 mg/1 06 h               |
| Algae                 | EC50                  | Algae                                    | 1.4 mg/l, 96 h             |
| Crustacea             | EC50                  | Daphnia                                  | 2.5 mg/l, 48 h             |
| Fish                  | LC50                  | Oncorhynchus mykiss                      | 5 - 7 mg/l, 96 h           |

| <i>Chronic</i><br>Crustacea              | EC20                | Daphnia magna       | 2.11 mg/l, 21 d  |
|--|---------------------|---------------------|------------------|
| Fish                                     | EC20                | Pimephales promelas | 1.86 mg/l, 30 d  |
| Tetrasodium Ethylene<br>Aquatic<br>Acute | diaminetetraacetate | e (CAS 64-02-8)     |                  |
| Algae                                    | EC50                | Algae               | > 100 mg/l, 72 h |

| Components  |   | Species   | Test Results            |  |
|---|---|---|-------------------------|--|
| Crustacea   | EC50  | Daphnia   | 625 mg/l, 24 h          |  |
| Fish  | LC50  | Bluegill (Lepomis macrochirus)  | 121 mg/l, 96 h          |  |
| Chronic   | 2000  |   |                         |  |
| Crustacea   | NOEC  | Daphnia   | 25 mg/l, 21 d           |  |
|   |   | Fish  | >= 25.7 mg/l, 35 d      |  |
| Fish  | NOEC  |   |                         |  |
| Persistence and degradability                         | No data is  | available on the degradability of any ingr  | edients in the mixture. |  |
| Bioaccumulative potential                             |   |   |                         |  |
| Partition coefficient n-octa                          | nol / water (l  | og Kow)   |                         |  |
| Ethanol   |   | -0.31   |                         |  |
| Surfactant  |   | 3.75  |                         |  |
| Mobility in soil                                      | No data a   | vailable.   |                         |  |
| 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 consideratio                             | ons   |   |                         |  |
| Disposal instructions                                 | rinsate is a<br>instructior   | Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance. |                         |  |
| Local disposal regulations                            | Dispose ir  | n accordance with all applicable regulation   | S.                      |  |
| Hazardous waste code                                  |   | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.  |                         |  |
| Waste from residues / unused products                 | product re  | 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                             | 1   |   |                         |  |
| DOT   |   |   |                         |  |
| UN number   | UN1903  |   |                         |  |
| UN proper shipping name<br>Transport hazard class(es) | Disinfectants, liquid, corrosive n.o.s. (Quaternary Ammonium Compounds)   |   |                         |  |
| Class   | 8   |   |                         |  |
| Subsidiary risk                                       | -   |   |                         |  |
| Label(s)  | 8   |   |                         |  |
| Packing group   | III   |   |                         |  |
| Special precautions for use                           | er Read safe  | ty instructions, SDS and emergency proc   | edures before handling. |  |
| Special provisions                                    | IB3, T4, TP1  |   |                         |  |
| Packaging exceptions                                  | 154   |   |                         |  |
| Packaging non bulk                                    | 203   |   |                         |  |
| Packaging bulk<br>IATA                                | 241   |   |                         |  |
| UN number   | UN1903  |   |                         |  |
| UN number<br>UN proper shipping name                  |   | nt, liquid, corrosive, n.o.s. (Quaternary Ar  | mmonium Compounds)      |  |
| Transport hazard class(es)                            |   | n, iquia, conosive, n.o.s. (Quaternally Al  |                         |  |
| Class   | 8   |   |                         |  |
| Subsidiary risk                                       | -   |   |                         |  |
| Label(s)  | 8   |   |                         |  |
| Packing group   | iii   |   |                         |  |

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Ш

Yes

8L

Packing group

ERG Code

**Environmental hazards** 

| Other information               |                            |
|---------------------------------|----------------------------|
| Passenger and cargo<br>aircraft | Allowed with restrictions. |
| Cargo aircraft only             | Allowed with restrictions. |

#### IMDG

| UN number                  | UN1903  |
|----------------------------|---|
| UN proper shipping name    | DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (QUATERNARY AMMONIUM COMPOUNDS), MARINE POLLUTANT |
| Transport hazard class(es) |   |
| Class                      | 8   |
| Subsidiary risk            | -   |
| Label(s)                   | 8   |
| Packing group              | III   |
| Environmental hazards      |   |
| Marine pollutant           | Yes   |
| EmS                        | F-A, S-B  |
|                            |   |

Special precautions for userRead safety instructions, SDS and emergency procedures before handling.Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeNot established.

#### DOT



IATA; IMDG



Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

#### 15. Regulatory information

#### CERCLA (Superfund) reportable quantity, lbs

Ethanol: 100

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA) Classified hazard categories

Skin corrosion or irritation Serious eye damage or eye irritation

| Hazard categories                             | Immediate Hazard - Yes<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No   |  |
|---|---|--|
| Section 302 extremely haza                    | rdous substance   |  |
| Not listed.                                   |   |  |
| SARA 311/312 Hazardous chemical               | Yes   |  |
| SARA 313 (TRI reporting)<br>Not regulated.    |   |  |
| Other federal regulations                     |   |  |
| Clean Air Act (CAA) Section                   | n 112 Hazardous Air Pollutants (HAPs) List  |  |
| Not regulated.<br>Clean Air Act (CAA) Section | n 112(r) Accidental Release Prevention (40 CFR 68.130)  |  |
| Not regulated.                                |   |  |
| Safe Drinking Water Act<br>(SDWA)             | Contains component(s) regulated under the Safe Drinking Water Act.  |  |
| FEMA Priority Substan                         | ces Respiratory Health and Safety in the Flavor Manufacturing Workplace   |  |
| Ethanol (CAS 64-17                            |   |  |
| FIFRA Information                             | This chemical is a pesticide product registered by the Environmental Protect  | ion Agency and is  |
|   | subject to certain labeling requirements under federal pesticide law. These refrom the classification criteria and hazard information required for safety data workplace labels of non-pesticide chemicals. Listed below is the hazard infor the pesticide label.   | equirements differ<br>a sheets, and for  |
| Signal word                                   | DANGER<br>KEEP OUT OF REACH OF CHILDREN   |  |
| Hazard statement                              | Corrosive. Causes irreversible eye damage and skin burns. May be fatal if ir swallowed or absorbed through the skin. Do not get in eyes, on skin or on cl minimum of a NIOSH-approved particulate filtering facepiece respirator with goggles or face shield, chemical-resistant gloves, and protective clothing wh thoroughly with soap and water after handling and before eating, drinking, ch tobacco or using the toilet. Remove contaminated clothing and wash before | othing. Wear a<br>any N, R, or P filter,<br>en handling. Wash<br>newing gum, using |
| International Inventories                     |   |  |
| Country(s) or region                          | Inventory name C  | n inventory (yes/no)*  |
| Australia                                     | Australian Inventory of Chemical Substances (AICS)  | No   |
| 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)  | No   |
| 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  |
| Dhilinging                                    | Dhilipping Inventory of Chamicals and Chamical Substances   | X  |

Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Philippine Inventory of Chemicals and Chemical Substances

Taiwan Chemical Substance Inventory (TCSI)

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, including date of preparation or last revision **Revision date** Issue date

(PICCS)

Philippines

United States & Puerto Rico

Taiwan

Yes

Yes

Yes

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| HMIS® ratings<br>NFPA ratings | Health: 3<br>Flammability: 1<br>Physical hazard: 0<br>Health: 3<br>Flammability: 1<br>Instability: 0  |
|-------------------------------|---|
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| Revision information          | Product and Company Identification: Physical States<br>Hazard(s) identification: Hazard statement<br>Hazard(s) identification: Supplemental information<br>Composition / Information on Ingredients: Ingredients<br>Physical & Chemical Properties: Multiple Properties<br>Toxicological information: Mutagenicity<br>Toxicological information: Specific target organ toxicity - repeated exposure<br>Disposal considerations: Disposal instructions<br>Disposal considerations: Hazardous waste code<br>Regulatory Information: United States<br>Material Attributes & Uses; Experimental Data: Experimental Data   |