



# SAFETY DATA SHEET

## 1. Identification

|   |   |
|---|---|
| <b>Product identifier</b>   | <b>Aquadene® SK-7880</b>  |
| <b>Other means of identification</b>                                |   |
| <b>SDS number</b>   | -   |
| <b>Recommended use</b>  | Aquadene® SK-7880 is an effective corrosion inhibitor and sequesterant for use in potable and industrial water systems.   |
| <b>Recommended restrictions</b>                                     | None known.   |
| <b>Manufacturer / Importer / Supplier / Distributor information</b> |   |
| <b>Company name</b>   | CARUS CORPORATION   |
| <b>Address</b>  | 315 Fifth Street,<br>Peru, IL 61354, USA  |
| <b>Telephone</b>  | 815 223-1500 - All other non-emergency inquiries about the product should be directed to the company  |
| <b>E-mail</b>   | salesmkt@caruscorporation.com   |
| <b>Website</b>  | www.caruscorporation.com  |
| <b>Contact person</b>   | Dr. Chithambarathanu Pillai   |
| <b>Emergency Telephone</b>  | For Hazardous Materials [or Dangerous Goods] Incidents ONLY (spill, leak, fire, exposure or accident), call CHEMTREC at CHEMTREC®, USA: 001 (800) 424-9300<br>CHEMTREC®, Mexico (Toll-Free - must be dialed from within country): 01-800-681-9531<br>CHEMTREC®, Other countries: 001 (703) 527-3887 |

## 2. Hazard(s) identification

|  |  |
|--|--|
| <b>Physical hazards</b>                          | Not classified.  |
| <b>Health hazards</b>                            | Not classified.  |
| <b>Environmental hazards</b>                     | Not classified.  |
| <b>OSHA defined hazards</b>                      | Not classified.  |
| <b>Label elements</b>                            |  |
| <b>Hazard symbol</b>                             | None.  |
| <b>Signal word</b>                               | None.  |
| <b>Hazard statement</b>                          | The mixture does not meet the criteria for classification.                     |
| <b>Precautionary statement</b>                   |  |
| <b>Prevention</b>                                | Observe good industrial hygiene practices.                                     |
| <b>Response</b>                                  | Wash hands after handling.   |
| <b>Storage</b>                                   | Store away from incompatible materials.  |
| <b>Disposal</b>                                  | Dispose of waste and residues in accordance with local authority requirements. |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | Not classified.  |

## 3. Composition/information on ingredients

### Mixtures

| <b>Chemical name</b>                 | <b>CAS number</b> | <b>%</b> |
|--------------------------------------|-------------------|----------|
| Diphosphoric acid, disodium salt     | 7758-16-9         | 1 - 5    |
| Triphosphoric acid, pentasodium salt | 7758-29-4         | 1 - 5    |

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Move to fresh air. Call a physician if symptoms develop or persist.                      |
| <b>Skin contact</b> | Wash off with soap and water. Get medical attention if irritation develops and persists. |

|   |  |
|---|--|
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Direct contact with eyes may cause temporary irritation.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Treat symptomatically.   |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).   |
| <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> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| <b>Fire-fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | 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 in original containers for re-use. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Prevent further leakage or spillage if safe to do so.  |

## 7. Handling and storage

|   |   |
|---|---|
| <b>Precautions for safe handling</b>                                | Avoid inhalation and contact with skin and eyes. Wear appropriate personal protective equipment (See Section 8). Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in original tightly closed container. Store away from incompatible materials.   |

## 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>                                      | General ventilation normally adequate.  |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | If contact is likely, safety glasses with side shields are recommended.   |
| <b>Skin protection</b>   |   |
| <b>Hand protection</b>   | For prolonged or repeated skin contact use suitable protective gloves.  |
| <b>Other</b>   | Wear suitable protective clothing.  |
| <b>Respiratory protection</b>  | In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.  |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b>  | 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>     | Colorless solution. |
| <b>Physical state</b> | Liquid.             |
| <b>Form</b>           | Liquid.             |

|   |                       |
|---|-----------------------|
| <b>Color</b>  | Colorless.            |
| <b>Odor</b>   | None.                 |
| <b>Odor threshold</b>                               | Not available.        |
| <b>pH</b>   | 1% solution = 6.8±1.0 |
| <b>Melting point/freezing point</b>                 | < 32 °F (< 0 °C)      |
| <b>Initial boiling point and boiling range</b>      | 213.8 °F (101 °C)     |
| <b>Flash point</b>                                  | Not available.        |
| <b>Evaporation rate</b>                             | Not available.        |
| <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>                               | Not available.        |
| <b>Vapor density</b>                                | Not available.        |
| <b>Relative density</b>                             | 1.34±0.03 at 25°C     |
| <b>Solubility(ies)</b>                              |                       |
| <b>Solubility (water)</b>                           | Completely soluble.   |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.        |
| <b>Auto-ignition temperature</b>                    | Not available.        |
| <b>Decomposition temperature</b>                    | Not available.        |
| <b>Viscosity</b>                                    | Not available.        |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization will not occur.  |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Strong acids. Strong bases.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |   |
|---------------------|---|
| <b>Ingestion</b>    | May cause discomfort if swallowed.  |
| <b>Inhalation</b>   | In high concentrations, vapors may be irritating to the respiratory system. |
| <b>Skin contact</b> | Prolonged or repeated skin contact may cause irritation.                    |
| <b>Eye contact</b>  | May cause eye irritation on direct contact.                                 |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

|  |  |
|--|--|
| <b>Acute toxicity</b>                    | May cause discomfort if swallowed.                       |
| <b>Skin corrosion/irritation</b>         | Prolonged contact may cause dryness of the skin.         |
| <b>Serious eye damage/eye irritation</b> | Direct contact with eyes may cause temporary irritation. |

### Respiratory or skin sensitization

|                                  |                        |
|----------------------------------|------------------------|
| <b>Respiratory sensitization</b> | No data available.     |
| <b>Skin sensitization</b>        | Not a skin sensitizer. |

**Germ cell mutagenicity** 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>Reproductive toxicity</b>                              | No data available.  |
| <b>Specific target organ toxicity - single exposure</b>   | No data available.  |
| <b>Specific target organ toxicity - repeated exposure</b> | No data available.  |
| <b>Aspiration hazard</b>                                  | Not classified.   |

## 12. Ecological information

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Persistence and degradability</b> | The product is not expected to be readily biodegradable.   |
| <b>Bioaccumulative potential</b>     | No data available for this product.  |
| <b>Mobility in soil</b>              | Not available.   |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.                           |
| <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. |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations.   |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal.                 |

## 14. Transport information

|   |                                   |
|---|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b>   | Not regulated as dangerous goods. |
| <b>IMDG</b>   | Not regulated as dangerous goods. |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not available.                    |

## 15. Regulatory information

|   |  |
|---|--|
| <b>US federal regulations</b>   | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>      | Not regulated.   |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> | Not listed.  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                     | Triphosphoric acid, pentasodium salt (CAS 7758-29-4) LISTED  |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>        |  |
| <b>Hazard categories</b>  | Immediate Hazard - No<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No             |
| <b>SARA 302 Extremely hazardous substance</b>                             | Not listed.  |
| <b>SARA 311/312 Hazardous chemical</b>                                    | No   |
| <b>SARA 313 (TRI reporting)</b>   | Not regulated.   |

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Safe Drinking Water Act (SDWA)

Not regulated.

## US state regulations

### US. Massachusetts RTK - Substance List

Triphosphoric acid, pentasodium salt (CAS 7758-29-4)

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

Not listed.

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

Triphosphoric acid, pentasodium salt (CAS 7758-29-4)

### US. Rhode Island RTK

Triphosphoric acid, pentasodium salt (CAS 7758-29-4)

### 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 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

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

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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

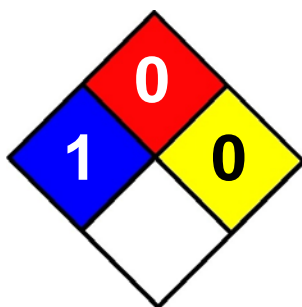
## 16. Other information, including date of preparation or last revision

Issue date 06-April-2014

Revision date -

Version # 01

### NFPA Ratings



### References

HSDB® - Hazardous Substances Data Bank

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