



# Safety Data Sheet

**QuadDetect®**

## 1. Identification

**Product Identifier:** CL8723

**Recommended Use:** Scale and Corrosion Inhibitor

**Supplied by:** ChemTreat, Inc.  
5640 Cox Road  
Glen Allen, Virginia 23060  
E-Mail: productcompliance@chemtreat.com  
www.chemtreat.com  
(800) 648-4579

**Emergency Telephone:** (800) 424-9300

## 2. Hazards Identification

This substance or mixture is classified in accordance with 29 CFR 1910.1200.

### Hazard Pictogram(s)



**Signal Word**  
Danger

### GHS CLASSIFICATION & HAZARD STATEMENTS

|                                 |      |                                          |
|---------------------------------|------|------------------------------------------|
| SKIN CORROSION - CATEGORY 1A    | H314 | Causes severe skin burns and eye damage. |
| SERIOUS EYE DAMAGE - CATEGORY 1 | H318 | Causes serious eye damage.               |

### PRECAUTIONARY STATEMENTS

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P260           | Do not breathe dust/fume/gas/mist/vapours/spray.                                                                                 |
| P264           | Wash hands thoroughly after handling.                                                                                            |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER or doctor/physician.                                                                            |
| P321           | Specific treatment is possible (refer to label).                                                                                 |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P405           | Store locked up.                                                                                                                 |
| P501           | Dispose of contents/container in accordance with local/regional/national/international regulations.                              |

## 3. Composition/Information on Ingredients

| Chemical Name                               | CAS-No.    | Wt. %   | GHS Statements |
|---------------------------------------------|------------|---------|----------------|
| Potassium pyrophosphate                     | 7320-34-5  | 10 - 20 | H319-332       |
| Potassium hydroxide                         | 1310-58-3  | 10 - 20 | H301-314-318   |
| 2-phosphonobutane-1,2,4,-tricarboxylic acid | 37971-36-1 | 5 - 10  | H319           |

The exact percentage (concentration) and/or specific chemical identity of the product composition has been withheld as a trade secret.  
Full text of H-statements (if any): see Section 16

## 4. First-aid Measures



**First Aid - General Advice:** Provide general supportive measures and treat symptomatically. If any symptoms persist or in all cases of doubt, seek medical advice.

**First Aid - Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**First Aid - Ingestion:** Rinse mouth. Get medical attention if symptoms occur.

**First Aid - Skin Contact:** Immediately wash skin with plenty of water while removing any contaminated clothing. Call a physician or poison control center immediately if symptoms occur. Chemical burns must be treated by a physician.

**First Aid - Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove eye contact lenses. Call a physician or poison control center immediately if symptoms persist.

**Most Important Symptoms and Effects:** See Section 2 and Section 11, Toxicological effects for description of potential symptoms. This material may be corrosive and potentially damaging to any tissue it comes in contact with. Symptoms may include irritation, stinging, tearing, redness, swelling, itching, burns, and blurred vision.

**Notes to Physician:** Ensure that medical personnel are aware of the material(s) involved and follow precaution measures. Treat symptomatically.

## 5. Fire-fighting Measures

**Fire and Explosion Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials.

**Special Firefighting Procedures:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 6. Accidental Release Measures

**Methods and Materials for Containment and Cleanup:** Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if possible without risk. Absorb in vermiculite, sand, or earth and place into containers. Flush area with compatible cleaning solution.

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. Do not allow discharge into drains, water courses, or onto the ground. See Section 12 for additional Ecological information.

**Advice for Emergency Responders:** Keep unnecessary personnel away. Ventilate area. Observe and follow emergency procedures.

**Personal Precautions:** Refer to protective measures listed in sections 7 and 8.

## 7. Handling and Storage

**Handling:** Keep container tightly closed. Wear personal protection equipment. Avoid contact with eyes, skin or clothing. Wash hands after handling.

**Storage:** Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store above Freeze Point.

## 8. Exposure Controls/Personal Protection

### Ingredients with Occupational Exposure Limits

| Chemical Name                               | ACGIH TLV-TWA | ACGIH-TLV STEL | OSHA PEL-TWA | OSHA PEL-CEILING |
|---------------------------------------------|---------------|----------------|--------------|------------------|
| Potassium pyrophosphate                     | N.E.          | N.E.           | N.E.         | N.E.             |
| Potassium hydroxide                         | N.E.          | N.E.           | N.E.         | N.E.             |
| 2-phosphonobutane-1,2,4,-tricarboxylic acid | N.E.          | N.E.           | N.E.         | N.E.             |

MEL = Maximum Exposure Limit OES = Occupational Exposure Standard N.E. = Not Established

## Personal Protection

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below applicable exposure limits, an appropriate certified respirator must be worn.

**Skin Protection:** Wear appropriate chemical resistant gloves.

**Eye Protection:** Wear safety glasses with side shields (or goggles) and/or a face shield.

**Other Protective Equipment:** Wear suitable personal protective equipment. Eye wash facilities and emergency shower must be available when handling this product.

**Hygienic Practices:** Handle in accordance with good industrial hygiene and safety practice.

**Engineering Controls:** Use adequate ventilation to maintain airborne concentrations at levels below permissible or recommended occupational exposure limits.

## 9. Physical and Chemical Properties

|                                            |                |                               |                |
|--------------------------------------------|----------------|-------------------------------|----------------|
| <b>Appearance:</b>                         | Clear          | <b>Color:</b>                 | Orange         |
| <b>Physical State:</b>                     | Liquid         | <b>Odor:</b>                  | Mild           |
| <b>Density, lb/gal:</b>                    | 10.92          | <b>Specific gravity, 20°C</b> | 1.309          |
| <b>Freeze Point, °C:</b>                   | -6.1           | <b>pH:</b>                    | 10             |
| <b>Solubility in Water:</b>                | Soluble        | <b>Viscosity:</b>             | 0 - 200 cps    |
| <b>Boiling Range, °C:</b>                  | No Information | <b>Flash Point, °C:</b>       | No Information |
| <b>Volatile Organic Compounds, gr/ltr:</b> | 0.00           | <b>Combustibility:</b>        | No Information |

## 10. Stability and Reactivity

**Reactivity:** No reactivity hazards known under recommended storage and use conditions.

**Stability:** Stable under recommended use and conditions.

**Conditions to Avoid:** Contact with incompatible materials.

**Incompatibility:** Strong oxidizing agents. Compatibilities with materials of construction are available upon request from a ChemTreat representative.

**Hazardous Decomposition Products:** Additional reactivity or stability information is available upon request from a ChemTreat representative.

## 11. Toxicological Information

**Most Important Symptoms and Effects:** See Section 2 and Section 11, Toxicological effects for description of potential symptoms. This material may be corrosive and potentially damaging to any tissue it comes in contact with. Symptoms may include irritation, stinging, tearing, redness, swelling, itching, burns, and blurred vision.

**Effect of Overexposure - Inhalation:** Under normal use conditions, this product is not expected to cause adverse health effects.

**Effect Of Overexposure - Ingestion:** May be harmful if swallowed. Rinse mouth. Call a physician or poison center if symptoms occur.

**Effect of Overexposure - Skin Contact:** May cause severe skin irritation or burns.

**Effect Of Overexposure - Eye Contact:** May cause serious eye irritation or damage.

**Effect Of Overexposure - Chronic Hazards:** No persistent or cumulative effects were observed. Under normal use conditions, this product is not expected to cause chronic health effects.

**Carcinogenicity:** Not classified as carcinogenic to humans.

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below

| CAS-No.               | Chemical Name                               | Oral LD50       | Dermal LD50        | Vapor LC50      |
|-----------------------|---------------------------------------------|-----------------|--------------------|-----------------|
| 7320-34-5             | Potassium pyrophosphate                     | N.I.            | >2000 mg/kg Rabbit | N.I.            |
| 1310-58-3             | Potassium hydroxide                         | 284 mg/kg Rat   | >2001              | >200001         |
| 37971-36-1            | 2-phosphonobutane-1,2,4,-tricarboxylic acid | >3250 mg/kg Rat | >4000 mg/kg Rat    | >4000 mg/kg Rat |
| N.I. = No Information |                                             |                 |                    |                 |

## 12. Ecological Information

**Ecological Information:** 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.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**Other Adverse Ecological Effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### Ecotoxicity

| Species                                       | Duration and Type | Test Results |
|-----------------------------------------------|-------------------|--------------|
| Fathead minnow ( <i>Pimephales promelas</i> ) | LC50 for 96 hours | 1436 mg/L    |
| Ceriodaphnia dubia                            | LC50 for 48 hours | 863 mg/L     |

### 13. Disposal Information

**Disposal Instructions:** Do not dispose or allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated Packaging:** 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.

**Hazardous Waste Code:** None

### 14. Transport Information

#### DOT

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| UN Number:                    | UN3266                                                                 |
| Proper Shipping Name:         | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.                             |
| Technical Name:               | (POTASSIUM HYDROXIDE AND TETRAPOTASSIUM PYROPHOSPHATE)                 |
| Hazard Class(es)              |                                                                        |
| Class:                        | 8                                                                      |
| Subsidiary Risk               | No Information                                                         |
| Packing Group:                | PGIII                                                                  |
| Special Precautions for user: | Read safety instructions, SDS and emergency procedures before handling |
| Reportable Quantity (RQ) lbs  | 9456 lbs (Potassium hydroxide)                                         |
| ERG Code:                     | 154                                                                    |

#### IATA

|                        |                                                        |
|------------------------|--------------------------------------------------------|
| UN Number:             | UN3266                                                 |
| Proper Shipping Name:  | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.             |
| Technical Name:        | (POTASSIUM HYDROXIDE AND TETRAPOTASSIUM PYROPHOSPHATE) |
| Hazard Class(es)       |                                                        |
| Class:                 | 8                                                      |
| Subsidiary Risk:       | N/A                                                    |
| Packing Group:         | PGIII                                                  |
| Environmental Hazards: | No                                                     |
| ERG Code:              | 8L                                                     |

#### IMDG

|                               |                                                                        |
|-------------------------------|------------------------------------------------------------------------|
| UN Number:                    | UN3266                                                                 |
| Proper Shipping Name:         | CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.                             |
| Technical Name:               | (POTASSIUM HYDROXIDE AND TETRAPOTASSIUM PYROPHOSPHATE)                 |
| Hazard Class(es)              |                                                                        |
| Class:                        | 8                                                                      |
| Subsidiary Risk:              | N/A                                                                    |
| Packing Group:                | PGIII                                                                  |
| Marine Pollutant:             | No                                                                     |
| EmS:                          | F-A, S-B                                                               |
| Special Precautions for user: | Read safety instructions, SDS and emergency procedures before handling |

**Special Transport Precautions:** No Information

## 15. Regulatory Information

### Federal Regulations:

This safety data sheet was prepared in accordance with the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
Not regulated

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

| Chemical Name       | CAS-No.   | Threshold       |
|---------------------|-----------|-----------------|
| Potassium hydroxide | 1310-58-3 | 1000 lb, 454 kg |

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

##### SARA 302 Extremely Hazardous Substances

Not regulated

##### SARA Section 311/312

**Classified Hazard Categories** Skin Corrosion or Irritation, Serious eye damage or eye irritation

##### SARA 313 (TRI reporting)

Not regulated

#### OSHA Specifically Regulated Substances List (40 CFR 1910.1001-1053)

Not regulated

#### Clean Air Act (CAA)

##### 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

#### California Proposition 65

Not regulated

### International Regulations:

#### International Inventories:

| Country(s) or region | Inventory name                                                                                   | On inventory (yes/no)* |
|----------------------|--------------------------------------------------------------------------------------------------|------------------------|
| TSCA                 | United States Toxic Substances Control Act Inventory                                             | Yes                    |
| DSL                  | Canadian Domestic Substances List                                                                | Yes                    |
| NDSL                 | Canadian Non-Domestic Substances List                                                            | No                     |
| EINECS/ELINCS        | European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances | Yes                    |
| ENCS                 | Japan Existing and New Chemical Substances                                                       | Yes                    |
| IECSC                | China Inventory of Existing Chemical Substances                                                  | Yes                    |
| KECI                 | Korean Existing and Evaluated Chemical Substances                                                | Yes                    |
| PICCS                | Philippines Inventory of Chemicals and Chemical Substances                                       | Yes                    |
| AICS                 | Australian Inventory of Chemical Substances                                                      | Yes                    |
| NZIoC                | New Zealand Inventory of Chemicals                                                               | Yes                    |
| TCI                  | Taiwan Chemical Substance 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).

## 16. Other Information

**Revision Date:** 6/25/2026  
**Reason for revision:** No Information  
**Datasheet produced by:** productcompliance@chemtreat.com

**HMIS Ratings:**

|                |   |                      |   |                    |   |                             |   |
|----------------|---|----------------------|---|--------------------|---|-----------------------------|---|
| <b>Health:</b> | 3 | <b>Flammability:</b> | 0 | <b>Reactivity:</b> | 0 | <b>Personal Protection:</b> | X |
|----------------|---|----------------------|---|--------------------|---|-----------------------------|---|

**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

ChemTreat, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.