

# VTI Valve Treatment Injection

Ready-to-use natural-gas compressor valve treatment for controlled suction injection

Controlled safety source: SDS\_VTI.pdf, SDS UC-006, revision January 20, 2026. This TDS does not replace the current Safety Data Sheet.

## PRODUCT OVERVIEW

VTI Valve Treatment Injection is a ready-to-use treatment intended for injection into natural-gas compressor suction service as part of a controlled valve-restoration program.

|                   |                                   |                  |                                                  |
|-------------------|-----------------------------------|------------------|--------------------------------------------------|
| Recommended use   | Natural gas compressor injection  | Physical state   | Liquid                                           |
| Appearance / odor | Lime green liquid / slight acidic | pH               | 2                                                |
| Specific gravity  | 1.26                              | Water solubility | Completely soluble                               |
| Flash point       | Non-flammable                     | Transport        | UN1805 Phosphoric Acid solution, Class 8, PG III |
| Signal word       | DANGER                            | NFPA             | 2-0-0                                            |

## CRITICAL READY-TO-USE REQUIREMENT

**READY TO USE - DO NOT DILUTE.**

**WATER WILL NEUTRALIZE VTI.**

- Use VTI exactly as supplied.
- Do not add water.
- Keep water out of the VTI storage container, injection reservoir, pump, tubing, fittings and nozzle.
- Use clean, dry, compatible equipment dedicated to VTI service.

## SHIPPING, PACKAGE AND LOGISTICS

| Variant  | Physical Package | SKU    | Gross Weight | Dimensions               | NMFC  | Class |
|----------|------------------|--------|--------------|--------------------------|-------|-------|
| Standard | 1 Gallon Jug     | VTI001 | 10.5 lb      | 6 x 6 x 12 in            | 44155 | 70    |
| Standard | 5 Gallon Bucket  | VTI005 | 55 lb        | 10.25 x 10.25 x 14.75 in | 44155 | 70    |
| Standard | 55 Gallon Drum   | VTI055 | 597.5 lb     | 23.5 x 23.5 x 35 in      | 44155 | 70    |
| Standard | 250 Gallon Tote  | VTI250 | 2,775 lb     | 40 x 47 x 46 in          | 44155 | 70    |

Current SDS transport classification: UN1805, Phosphoric Acid solution, Hazard Class 8, Packing Group III for DOT, IATA and IMDG. The SDS notes that package-size exceptions may apply; use current shipping papers. NMFC 44155 / Freight Class 70 is the current master-matrix value.

### NFPA 704

|                                                                                     |              |   |                                |
|-------------------------------------------------------------------------------------|--------------|---|--------------------------------|
|  | Health       | 2 | Moderate health hazard         |
|                                                                                     | Flammability | 0 | Non-flammable                  |
|                                                                                     | Instability  | 0 | Stable under normal conditions |
|                                                                                     | Special      | - | Not determined                 |
|                                                                                     |              |   |                                |

### GHS HAZARD COMMUNICATION

|                                                                                      |                                                                |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>GHS05 Corrosion</b>                                         |
|                                                                                      | <b>DANGER</b>                                                  |
|                                                                                      | Skin corrosion/irritation Category 1B.                         |
|                                                                                      | Serious eye damage Category 1.                                 |
|                                                                                      | Causes severe skin burns and eye damage.                       |
|                                                                                      | Other hazard: toxic to aquatic life with long lasting effects. |

## INJECTION PROCESS CONTROL

- Confirm the compressor is suitable for the approved VTI injection program.
- Install and verify the injection system using compatible tubing, fittings, check valves and an injection point approved for suction service.
- Inject VTI directly into suction at the approved pressure and rate.
- Maintain a continuous, controlled injection rate for the prescribed treatment period.
- Inspect regularly for leakage, plugged lines, pump malfunction, loss of prime or water contamination.
- Record daily injection quantity, pressure, operating conditions and observed valve-performance changes.
- Do not alter the injection rate or treatment duration without technical authorization.

## CONTROLLED EXAMPLE - NOT A UNIVERSAL DOSAGE FORMULA

|                            |                                          |
|----------------------------|------------------------------------------|
| Compressor                 | Ariel JGK-4                              |
| Reported throughput        | 11 MCF per day                           |
| Reported VTI concentration | 0.03342015 ppm of VTI per quart injected |
| Injection rate             | 6 quarts per day                         |
| Treatment duration         | 6 weeks                                  |
| Total VTI over 6 weeks     | 252 quarts                               |
| Injection pressure         | 11 psi                                   |
| Injection location         | Directly into suction                    |

**This example is reproduced from approved operating information and is not a universal dosage formula. Actual injection rates must be approved for the specific compressor, gas volume, operating conditions and restoration objective.**

## SAFE HANDLING AND REQUIRED PPE

- Wear suitable chemical-resistant gloves and protective clothing.
- Wear chemical splash goggles and a face shield when splash or spray exposure is possible.
- Ensure adequate ventilation, especially in enclosed or confined areas.
- Use respiratory protection when ventilation is inadequate under the site respiratory-protection program.
- Avoid skin and eye contact. Do not breathe mist, vapor or spray.
- Provide eyewash and emergency-shower access near the handling and injection area.

## FIRST AID FROM CURRENT SDS

| Exposure   | Current SDS direction                                                                                               |
|------------|---------------------------------------------------------------------------------------------------------------------|
| Eyes       | Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses when easy to do.              |
| Skin       | Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. |
| Inhalation | Remove to fresh air. Call a physician immediately.                                                                  |
| Ingestion  | DO NOT induce vomiting. Drink plenty of water. Immediately call a poison center or doctor/physician.                |

**Emergency contact: INFOTRAC 1-800-535-5053 North America; 1-352-323-3500 International.**

## STORAGE, SPILL AND ENVIRONMENTAL CONTROLS

- Keep container tightly closed in a cool, dry and well-ventilated place.
- Store locked up, out of reach of children, and protect from freezing.
- Store away from strong alkalis, bleach, ammonia and other incompatible materials.
- Prevent water contamination of concentrate and injection equipment.
- Stop releases if safe, contain with inert absorbent and transfer recovered material to compatible labeled containers.
- Prevent product from entering soil, storm drains, surface water or groundwater-sensitive areas.
- VTI is toxic to aquatic life with long lasting effects.
- Dispose of product, absorbent and contaminated packaging according to applicable requirements.

## FIRE AND STABILITY INFORMATION

- Suitable extinguishing media: dry chemical, carbon dioxide or water spray/fog.
- Firefighters should use self-contained breathing apparatus and full protective gear.
- Hazardous decomposition products may include oxides of phosphorus.
- VTI is stable under normal conditions and is not reactive under normal conditions.
- Avoid strong alkalis, bleach and ammonia.

## TRANSPORTATION AND REGULATORY PROFILE

| Mode / Field               | Controlled value                                                           |
|----------------------------|----------------------------------------------------------------------------|
| DOT                        | UN1805, Phosphoric Acid solution, Class 8, Packing Group III               |
| IATA                       | UN1805, Phosphoric Acid solution, Class 8, Packing Group III               |
| IMDG                       | UN1805, Phosphoric Acid solution, Class 8, Packing Group III               |
| CERCLA RQ                  | 5,000 lb for phosphoric acid                                               |
| California hazardous waste | Phosphoric acid listed as corrosive in the current SDS.                    |
| California Proposition 65  | Current SDS states this product does not contain Proposition 65 chemicals. |

## DOCUMENT CONTROL

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Product            | VTI Valve Treatment Injection                                                                                          |
| Product code       | VTI                                                                                                                    |
| Safety source      | SDS_VTI.pdf   SDS UC-006   revision January 20, 2026   Version 1                                                       |
| Operational source | VTI_TDS.PDF   Revision 1, August 4, 2026                                                                               |
| Shipping source    | 2026 Ultimate Chemicals Product Shipping Specs Matrix.xlsx                                                             |
| NFPA asset         | NFPA_2-0-0.svg                                                                                                         |
| GHS asset          | GHS05_Corrosion.png                                                                                                    |
| Header artwork     | Approved Ultimate Chemicals logo upper left; MASTER_PRODUCT_LOGO_VALVE_TREATMENT_INJECTION_TRANSPARENT.png upper right |
| Footer artwork     | Approved glow logo                                                                                                     |

## QUICK ACCESS

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### PRODUCT PAGE



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