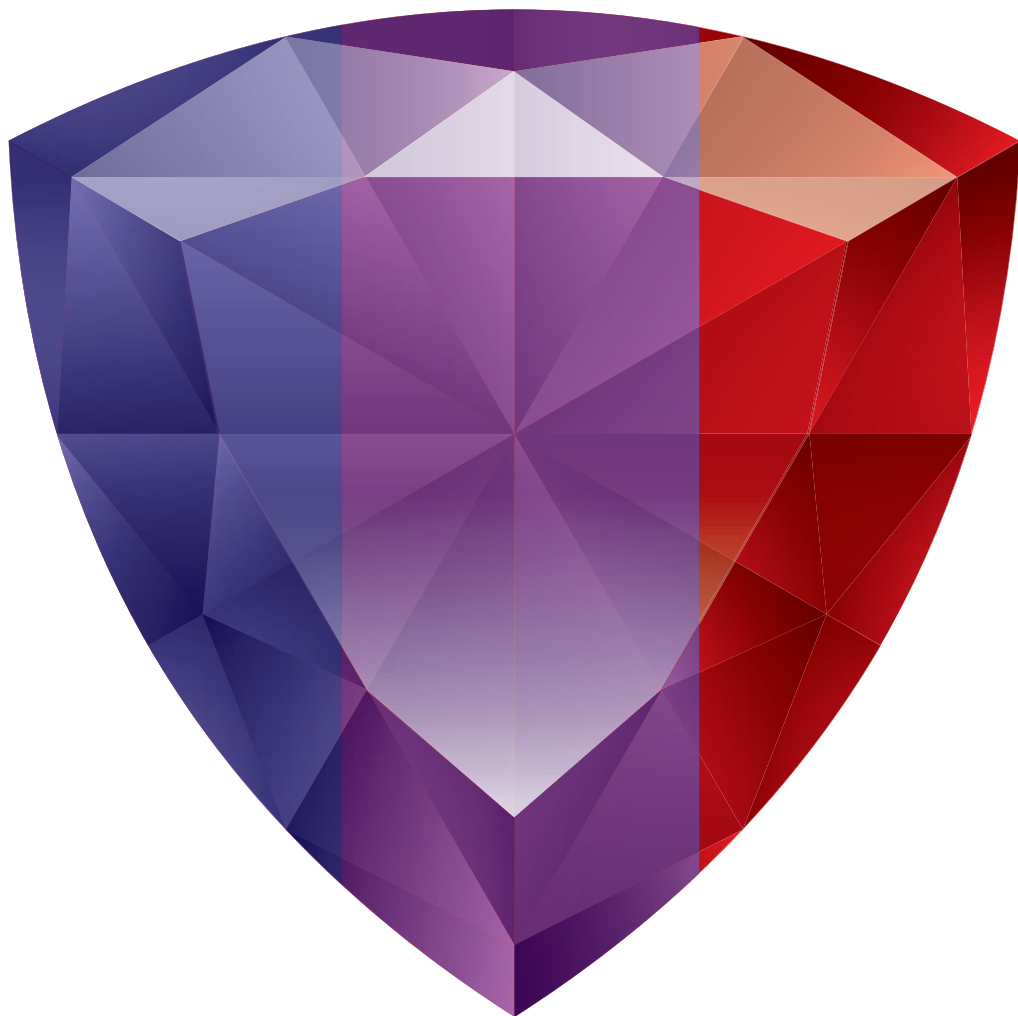


# CLEANING-IN-PLACE DETERGENTS

FOR THE REMOVAL OF RESIDUES PRESENT IN THE PRODUCTION PROCESS



**Crystal**<sup>™</sup>

# CLEANING-IN-PLACE DETERGENTS

FOR THE REMOVAL OF RESIDUES PRESENT IN THE PRODUCTION PROCESS

---

## AMETHYST

### CIP ALKALINE DETERGENT



A non-foaming, medium duty caustic based CIP detergent for the removal of organic soils, including fats and oils.

**RECOMMENDED USE:** Areas of use include equipment such as CIP and spray wash enclosed systems. Amethyst is not soft metal safe, but is suitable for use on stainless steel.

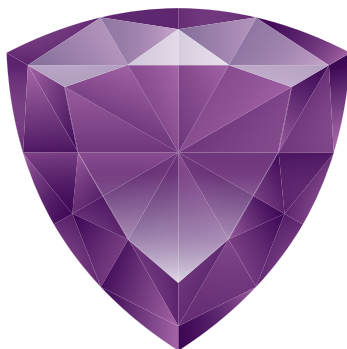
**RECOMMENDED DILUTION:** Between 1% – 5% v/v.

**PRODUCT TESTS CONDUCTED:** Shelf-life testing, On-site analytical method, HPLC (or similar) – High Performance Liquid Chromatography, TOC – Total Organic Carbon, Rinsability Graph, Conductivity Graph, Corrosion Studies, LD50 – Lethal Dose 50, COD – Chemical Oxygen Demand, Nitrogen / Phosphorous content.

---

## TOPAZ

### CIP ALKALINE DETERGENT



A non-foaming, heavy duty caustic based CIP detergent for the removal of organic soils, including fats and oils.

**RECOMMENDED USE:** Areas of use include equipment such as CIP and spray wash enclosed systems. Topaz is not soft metal safe, but is suitable for use on stainless steel

**RECOMMENDED DILUTION:** Between 0.5% – 5% v/v.

**PRODUCT TESTS CONDUCTED:** Shelf-life testing, On-site analytical method, HPLC (or similar) – High Performance Liquid Chromatography, TOC – Total Organic Carbon, Rinsability Graph, Conductivity Graph, Corrosion Studies, LD50 – Lethal Dose 50, COD – Chemical Oxygen Demand, Nitrogen / Phosphorous content.

# RUBY

---

## CIP ACIDIC DETERGENT

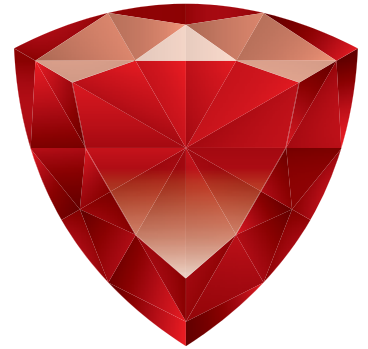
A non-foaming, heavy duty phosphoric acid based CIP detergent for the removal of organic and inorganic soils.

**RECOMMENDED USE:** Ruby is purposely formulated to remove mineral and calcium based deposits. This non-foaming detergent is specifically for use in CIP and spray wash enclosed systems and is therefore suitable for use on stainless steel.

**RECOMMENDED DILUTION:** Between 0.5% – 5% v/v.

**PRODUCT TESTS CONDUCTED:** Shelf-life testing, On-site analytical method, HPLC – High Performance Liquid Chromatography, TOC – Total Organic Carbon, Rinsability Graph, Conductivity Graph, Corrosion Studies, LD50 – Lethal Dose 50, COD - Chemical Oxygen Demand, Nitrogen / Phosphorous content.

---



## PRODUCT OPTIONS



20L - CRY407



1000L - CRY406



20L - CRY401  
1000L - CRY403

Each Crystel product comes with its own technical file, Certificate of Analysis, Certificates of Sterility and Certificates of Irradiation.

**Tristel**

Created by: Tristel Solutions Limited, Lynx Business Park, Cambs, UK, CB8 7NY  
T +44 (0) 1638 721500 - E mail@tristel.com - W www.tristel.com

Copyright © Tristel Solutions  
Mkt-Bro-342-1  
October 2017

Page 2 of 2

**Tristel**  
We have chemistry