# *SAFETY DATA SHEET*

**Preparation Date:** Nov 24, 2014
**Supersedes Date:** Jun 29, 2012

**Version Number:** 10

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT IDENTIFIER

| | |
|---|---|
| **Product Name** | DCT Automatic Dishwasher Detergent |
| **Product Form** | Concentrate |
| **Product ID Number** | DCT130050 |
| **PGP Number** | 7-90 |

### RECOMMENDED USE AND RESTRICTIONS ON USE

Dishwasher Detergent

### COMPANY IDENTIFICATION

**Manufacturer** Diversified Chemical Technologies, Inc.
15477 Woodrow Wilson, Detroit, MI 48238
(313) 867-5444

### EMERGENCY TELEPHONE NUMBER

**24 Hour Emergency Phone Number (Health & Safety; Transportation)** CHEMTREC - (800) 424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### GHS CLASSIFICATION

Product has not been tested as a whole to determine its GHS classification. Hazard categories are based on individual ingredient hazard categories. Refer Section 16 for additional GHS Phrases.

| Hazard Class | Hazard Category |
|---|---|
| Skin Corrosion/Irritation | 3 |
| Serious Eye Damage/Eye Irritation | 2A |

### GHS LABEL ELEMENTS

**Pictogram**

| GHS Signal Word |
|---|
| WARNING |

### GHS Hazard Phrases

Causes mild skin irritation.
Causes eye irritation

### GHS Precaution Phrases

Wash hands thoroughly after handling.

### GHS Response Phrases

If skin irritation occurs, get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.

### GHS Storage and Disposal Phrases

No phrases apply.

**POTENTIAL HEALTH EFFECTS (Acute and Chronic)**

**Chronic**: Product has not been tested as a whole to determine its acute and long-term effects. The product does contain ingredients that potentially may affect from repeated excessive exposures.

**Acute-Inhalation** Causes respiratory tract irritation. May be harmful if inhaled.

**Acute-Skin Contact** Causes mild skin irritation. May be harmful if absorbed through skin.

**Acute-Eye Contact** Causes eye irritation.

**Acute-Ingestion** May cause irritation of the digestive tract.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

| CAS Number | Ingredients* | Percentage Range |
|---|---|---|
| 7320-34-5 | Potassium pyrophosphate | 20 - 30 |
| 1310-58-3 | Potassium hydroxide | 1 - 5 |

***Identity of other chemicals and/or exact percentage (concentration) has been withheld as a trade secret.**

## SECTION 4 FIRST AID MEASURES

**IN CASE OF INHALATION**

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

**IN CASE OF SKIN CONTACT**

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**IN CASE OF EYE CONTACT**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**IN CASE OF INGESTION**

Do NOT induce vomiting. If victim is conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

**SIGNS AND SYMPTOMS OF EXPOSURE**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been investigated

**NOTE TO PHYSICIAN**

Treat symptomatically and supportively. It is advisable not to induce vomiting due to the risk of aspiration and it is not usually necessary unless a large amount has been ingested or it has been contaminated with another product.

## SECTION 5 FIRE FIGHTING MEASURES

| | |
|---|---|
| **Flash Point** | 212 °F |
| **Flash Point Method** | PMCC |

| | | |
|---|---|---|
| **Explosive Limits** | ***LEL***: N/D | ***UEL***: N/D |
| **Auto Ignition Point** | N/D | |

**SUITABLE EXTINGUISHING MEDIA** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**FIRE FIGHTING INSTRUCTIONS** As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

**FLAMMABLE PROPERTIES AND HAZARDS** No data available

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
National Response Center (24-HR Reporting): (800) 424-8802.

### SAFETY PRECAUTIONS

Use suitable protective clothing appropriate to spill size and risk of exposure. Refer to Section 8 for further details. Use extreme caution because affected area(s) may be slippery. For industrial use only. Keep out of reach of children.

### CONTAINMENT AND CLEANUP

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions. Absorb spill with inert material and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

## SECTION 7 HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING

Avoid contact with eyes. Handle with care in full concentration. Wash skin thoroughly after handling.

### PRECAUTIONS TO BE TAKEN IN STORAGE

Keep containers closed when not in use. Keep out of children's reach. Do not mix with oxidizing and other incompatible materials.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

| CAS # | Ingredients | OSHA TWA | ACGIH TWA | Other Limits |
|---|---|---|---|---|
| 1310-58-3 | Potassium hydroxide | N/A | CEIL: 2 mg/m3 | N/A |

### ENGINEERING CONTROLS

The level of ventilation necessary will vary depending upon potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded. If heavy misting is present, local exhaust ventilation should be considered in addition to general mechanical ventilation.

### WORK/HYGIENIC/MAINTENANCE PRACTICES

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing separate from home laundry and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping. Do not store work clothing and protective equipment in the same locker as personal clothing.

### PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal use.

***Protection*** No protective equipment is needed under normal use conditions.
***Hand Protection*** No protective equipment is needed under normal use conditions.
***Eye Protection*** No protective equipment is needed under normal use conditions.
***Skin and Body Protection*** No protective equipment is needed under normal use conditions.

**OTHER PROTECTIVE EQUIPMENT** None required under normal use conditions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | Clear Yellow |
| **Physical State** | Liquid |
| **Odor** | Mild |
| **pH** | 12.0 – 12.5 |
| **Melting Point** | N/A |
| **Boiling Point** | 100 C (212.0 F) |

| | |
|---|---|
| **Specific Gravity (water = 1)** | 1.33 - 1.35 |
| **Vapor Pressure** | N/D |
| **Viscosity** | N/AV |
| **Evaporation Rate (water = 1)** | N/D |
| **Volatile Organic Compounds (%)** | N/D |
| **Solubility in Water** | Completely |

## SECTION 10 STABILITY / REACTIVITY

**Chemical Stability** ***Unstable*** [ ] ***Stable*** [ X ]
**Conditions to Avoid** No data available.
**Reactivity / Incompatibility** Strong oxidizing agents, strong acids
**Hazardous Decomposition** Material does not decompose at ambient temperature.
**Hazardous Reactions** ***Will occur*** [ ] ***Will not occur*** [ X ]

## SECTION 11 TOXICOLOGICAL INFORMATION

### CARCINOGENICITY

No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

**IARC**: Not Listed **ACGIH**: Not Listed **NTP:** Not Listed

### PRODUCT TOXICOLOGICAL DATA

Product is not tested for classification under the following categories:

**LD50 (Oral) , LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard**

### INGREDIENT TOXICOLOGICAL DATA

None of the ingredients above 1% concentration (0.1% for carcinogens) trigger the hazard rating or classify under the following categories, unless indicated below:

**LC50 (Inhalation), Dermal Toxicity (Skin), Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard**

**LD50 (Oral) -** CAS# 1310-58-3: Rat, 273.0 mg/kg

**Skin Corrosion/Irritation -** CAS# 1310-58-3: Standard Draize Test, Human, 50.00 mg, 24 hr

## SECTION 12 ECOLOGICAL INFORMATION

**General Ecological Information** N/AV. **Persistence and Degradability** N/AV
**Bioaccumulative Potential** N/AV. **Mobility in Soil** N/AV

## SECTION 13 DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to bulk disposal of this material. Preferred method of disposal is to dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Product can be flushed to sanitary sewer. Discard empty container in trash.

## SECTION 14 TRANSPORT INFORMATION

| | LAND (US DOT) | MARINE (IMDG) | AIR (IATA) |
|---|---|---|---|
| **Proper Shipping Name** | None Required (Not DOT-Regulated per Corrositex Test No. 15428 dated 06/25/07) | | |
| **Hazard Class** | Not regulated | Not regulated | Not regulated |
| **ID Number** | Not regulated | Not regulated | Not regulated |
| **Packaging Group** | Not regulated | Not regulated | Not regulated |

**Additional Information**

**DOT Quantity Limitation:** N/A

**DOT Label for Limited Quantities:** N/A

## SECTION 15 REGULATORY INFORMATION

**EPA SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986) LISTS**

**[**302 (EHS) TPQ, 304 RQ, 313 TRI**]**

None of the ingredients above 1% concentration and 0.1% for carcinogens are identified in the lists, except:

1310-58-3: Potassium hydroxide – 304 RQ 1000 lb

7758-29-4: Sodium phosphate, Tribasic – 304 RQ 5000 lb

| SARA TITLE III SECTION 311/312 CATEGORIZATION (40 CFR 370) | Yes | No |
|---|---|---|
| Acute (immediate) Health Hazard | X | |
| Chronic (delayed) Health Hazard | | X |
| Fire Hazard | | X |
| Sudden Release of Pressure Hazard | | X |
| Reactive Hazard | | X |

**STATE AND OTHER US EPA REGULATIONS**

**California Prop. 65** N/AP

**WHMIS CLASSIFICATION (1988)** D2B (Stylized T)

***This product has been classified under WHMIS in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.***

**NATIONAL INVENTORIES**

| | |
|---|---|
| **TSCA** | Yes |
| **CAA HAP, ODC** | No |
| **CWA NPDES** | No |
| **CEPA (DSL/NDSL)** | Yes |
| **KECI** | N/D |

| | |
|---|---|
| **AICS** | N/D |
| **IECSC** | N/D |
| **EINECS** | N/D |
| **ENCS** | N/D |
| **PICCS** | N/D |

## SECTION 16 OTHER INFORMATION

**ADDITIONAL GHS PHRASES**

GHS phrases provided below are in addition to the phrases available in Section 2. GHS phrases are identified in accordance with GHS regulations and are triggered for each hazard category.

**NFPA RATING** Health (Blue): 2 Flammability (Red): 0 Reactivity (Yellow): 0 Specific Hazard(s) (White): None

**HMIS RATING** Health (Blue): 2 Flammability (Red): 0 Reactivity (Yellow): 0 Personal Protective Equipment: A or B

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS**
Conversion from EU format MSDS to GHS format SDS; Ingredient/concentration

**USER RESPONSIBILITY** It is the user's responsibility to determine the suitability and adopt precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of this product.

**PREPARED BY**
Corporate *Environment/Health and Safety Department of Diversified Chemical Technologies, Inc. and Subsidiaries*

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