

Product Name MSDS Date **DCT AUTOMATIC DISHWASHER DETERGENT**

April 20, 2011

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SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name DCT Automatic Dishwasher Detergent

Product ID Number 130050

Product Description Dishwasher Detergent

COMPANY IDENTIFICATION

Supplier Diversified Chemical Technologies, Inc.

15477 Woodrow Wilson Detroit, MI 48238 (313) 867-5444

Product Technical Information (313) 867-5444

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

SECTION 2	COMPOSITION / INFORMATION ON INGREDIENTS				
Hazardous Ingredients	CAS Number	OSHA PEL	ACGIH TLV	OTHER	% WT
Tetrapotassium diphosphate	7320-34-5				20 – 30
TS 1074 – Trade Secret			5 mg/m3		1 – 10
TS 1068 – Trade Secret					1-5
Potassium hydroxide 45%	1310-58-3	2 mg/m3	2 mg/m3 C		1 – 10
SECTION 3	HAZARDS IDENTIFICATION				

****EMERGENCY OVERVIEW****

Harmful if swallowed.

Can be irritating to eyes, skin and/or respiratory tract if contact is frequent or prolonged.

PRIMARY ROUTES OF EXPOSURE Eyes, Skin, Inhalation, Ingestion

TARGET ORGANS Eyes, Skin, Respiratory System

POTENTIAL HEALTH EFFECTS

Acute Effects

Inhalation Can cause irritation to respiratory tract upon prolonged, repeated exposures.

Eye Can cause irritation to eyes upon prolonged, repeated exposures.

Skin Can cause irritation to skin upon prolonged, repeated exposures.

Ingestion Harmful if swallowed.



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SECTION 3 HAZARDS IDENTIFICATION continued

Chronic EffectsProduct has not been tested as a whole to determine its long-term effects. The product does contain ingredients that potentially may affect the following target organs as a result from repeated excessive exposures: Eyes, Skin

Carcinogenicity None IARC: N/AP NTP: N/AP OSHA: N/AP

Medical Conditions Aggravated by Long-Term Exposure

Possible pre-existing dermatitis; dry skin

conditions

SECTION 4 FIRST AID MEASURES

INHALATION Remove to fresh air. Rest in half-upright position. Get prompt medical attention if necessary.

EYE CONTACT Remove contact lenses. Hold eyelids apart and flush eyes with plenty of water for at least 15

minutes. Get immediate medical attention if irritation persists.

SKIN CONTACT Remove contaminated clothing. Flush skin with plenty of water for at least 15 minutes. Get

immediate medical attention if irritation persists.

INGESTION Do not induce vomiting. Wash out mouth with water and obtain medical attention. If conscious,

milk or water to drink may be beneficial. Treat symptomatically. Get immediate medical

attention. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN Treat symptomatically. 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. Gastric lavage under supervised medical conditions can be carried out if necessary.

SECTION 5

FIRE FIGHTING MEASURES

Flash Point none

Flash Point Method PMCC

Auto Ignition Temperature N/D

Flammable Limits

LEL N/D

UEL N/D

Appropriate Extinguishing Media Dry Chemical, Foam, CO2

Unusual Fire or Explosion Hazards Contaminated water runoff may cause environmental damage. Dike and collect water used to fight fire.

Fire Fighting Instructions Firefighters should wear self-contained breathing apparatus (SCBA) and protection for skin. Stay away from ends of containers during a fire; containers may explode due to pressure build-up inside if heated. Do not spray water directly into storage containers due to boil over danger. Water may be used to cool nearby containers and surfaces.

Hazardous Combustion Products Irritating fumes, toxic gases and acrid smoke. Combustion can produce a variety of compounds including oxides of carbon; oxides of potassium; water vapor; unburned hydrocarbons; partially oxidized organic compounds and other unidentified organic and inorganic compounds.



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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]

GENERAL Stop leak if you can do so without risk. Contain spillage and prevent entry into sewer drains and watercourses. Retain all contaminated water for removal and treatment.

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.

SPILL OR LEAK PROCEDURESNeutralize spilled material with weak solution of citric acid if possible. Confine spillage and absorb spilled material with noncombustible, inert absorbent such as sand, clay, or vermiculite and place into DOT-approved containers for later disposal.

SECTION 7

HANDLING AND STORAGE

HANDLING

Avoid contact with skin, eyes, and clothing. Wear suitable protective equipment (see Section 8).

Avoid breathing mist or vapor – use only in a well-ventilated area. Unvented containers may develop pressure – use with caution.

Wash skin thoroughly after handling.

Eyewash stations and safety showers should be easily accessible to area where product is used.

Loading/Unloading Temperature[Ambient]Transport Temperature[Ambient]Transport Pressure[Ambient]Static AccumulatorN/D

STORAGE

Store in dry conditions protected from frost and elevated temperatures – covered storage is recommended.

Keep containers closed when not in use.

Store away from incompatible materials (see Section 10). Long-term storage temperatures should not exceed 120° F.

Keep away from sparks, heat and flame.

Do not store in reactive metal containers (i.e. aluminum, tin, zinc, galvanized steel or their alloys)

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

The level of ventilation necessary will vary depending upon potential exposure

conditions. Control measures to consider:

Ventilation

Adequate ventilation should be provided so that exposure limits are not exceeded (see Section 2 for exposure limits If heavy misting is present, local exhaust ventilation should be considered in addition to general mechanical ventilation.



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SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

continued

ADMINISTRATIVE CONTROLS

The level of protection necessary will vary depending upon potential exposure conditions. Control measures to consider:

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.

Respiratory Protection

If vapors or mists are present and if engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, a NIOSH/MSHA approved respirator may be appropriate. Respirator selection, use and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Air-Purifying Half-Face Respirator with Organic Vapor/Mists Cartridges

Hand Protection

Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: **Chemical-resistant Neoprene or PVC**

Eye Protection

If contact is likely, safety goggles are recommended. If splashing is likely, safety goggles with splash shield are recommended

Skin and Body Protection

Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: Long-sleeved shirt, pants and chemical-resistant apron at a minimum. If prolonged or repeated contact is likely, chemical-resistant clothing including boots are recommended.

Other Protective Equipment

Emergency eyewash/safety shower in the immediate area

Specific Hygiene Measures

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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear Yellow

Physical State Liquid

Odor mild fragrance

pH 12.0 – 12.5 (Not Corrosive per Corrositex Test No. 15428 dated 06/25/07)

Vapor Pressure N/AV Vapor Density N/AV



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PHYSICAL AND CHEMICAL PROPERTIES	continued
N/AV	
N/AP	
1.39 - 1.41	
N/AV	
%) N/D	
Complete	
N/D	
	N/AV N/AP 1.39 – 1.41 N/AV N/D Complete

SECTION 10

STABILITY / REACTIVITY

Chemical Stability

Material is stable and unlikely to react in a hazardous manner during recommended storage conditions and normal conditions of use.

Conditions to Avoid

Extreme temperatures

Reactivity / Incompatibility

Strong oxidizing agents, strong acids, light reactive metals (aluminum, zinc, tin,

galvanized steel, and their alloys)

Hazardous Decomposition

Material does not decompose at ambient temperature. Thermal decomposition can produce a variety of compounds, the nature of which will largely depend on the conditions bringing about decomposition. Incomplete combustion or thermal decomposition may be expected to generate such materials as: acrid smoke and irritating fumes; particulate matter and unburned, hydrocarbons; oxides of carbon; oxides of potassium; water vapor; oxidized organic compounds; and other unidentified organic and inorganic compounds.

Hazardous Polymerization

Will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

Product Toxicological Data

LD50 (Oral) N/D
LC50 (Inhalation) N/D
Dermal Toxicity Data (Skin) N/D
Skin and Eye Irritation Data N/D
Mutation Data N/D
Reproductive Effects Data N/D

Ingredient Toxicological Data

LD50 (Oral) N/AV
LC50 (Inhalation) N/AV
Dermal Toxicity Data (Skin) N/AV



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SECTION 11	TOXICOLOGICAL INFORMATION	continued

Skin and Eye Irritation Data N/AV

N/AV

Mutation Data N/AV Reproductive Effects Data N/AV

SECTION 12 ECOLOGICAL INFORMATION

Product Ecological Information N/AV

Ingredient Ecological Information N/AV

SECTION 13

DISPOSAL CONSIDERATIONS

EPA Waste ID Number

Take pH of wastewater solution to determine whether waste material is RCRA-hazardous (D002) or not. Waste product is RCRA-hazardous (D002) if pH is \geq 12.5. However, if this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

Waste Disposal

Neutralization/wastewater treatment is preferred method of disposal. Dispose of contaminated water in a contained waste treatment system. Follow all applicable federal, state, local and provincial regulations. It is the end-user's responsibility to determine the regulatory status of waste at the time of disposal.

Empty Containers

Empty containers may still contain RCRA-regulated residuals; therefore, clean empty containers of any residue per 40CFR261.7 guidelines and either recycle containers or dispose of in normal trash.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT)

DOT Proper Shipping NameNone Required (Not DOT-Regulated per Corrositex Test No. 15428 dated

06/25/07)

DOT Hazard Class N/AP
DOT Subsidiary Risk N/AP
DOT ID Number N/AP
DOT Packaging Group N/AP

SEA (IMDG)

IMDG Proper Shipping Name None Required (Not IMDG-Regulated per Corrositex Test No. 15428 dated

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SECTION 14	TRANSPORT INFORMATION	continued
IMDG Hazard Class	N/AP	

IMDG Hazard Class

IMDG Subsidiary Risk

IMDG ID Number

IMDG Packaging Group

N/AP

AIR (IATA)

IATA Proper Shipping Name None Required (Not IATA-Regulated per Corrositex Test No. 15428 dated

06/25/07)

IATA Hazard Class
N/AP
IATA Subsidiary Risk
N/AP
IATA ID Number
N/AP
IATA Packaging Group
N/AP

Additional Information N/AP

SECTION 15

REGULATORY INFORMATION

U.S. Federal Regulations

SARA Title III Section 311/312 Categorization (40 CFR 370)

Acute – Immediate Hazard

SARA Title III Section 313 Categorization (40 CFR 372)

This product contains a chemical(s) subject to the reporting requirements of Section 313 of Title III of SARA: None

302 (EHS) TPQ (40 CFR 355) None 304 CERCLA RQ (302.4) None 304 EHS RQ (40 CFR 116.4) None

State Regulations

California Prop. 65 N/AP

Identification of Prop. 65 Ingredient(s) N/AP

OSHA CLASSIFICATION WARNING

WHMIS CLASSIFICATION D2B (Stylized T)

This product has been classified 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
CEPA (DSL/NDSL) Yes
AICS N /AV



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SECTION 15	REGULATORY INFORMATION	continued

 IECSC
 N /AV

 EINECS
 N /AV

 ENCS
 N /AV

 KECI
 N /AV

 PICCS
 N /AV

Additional Information NONE

SECTION 16 OTHER INFORMATION

N/D = Not Determined N/A = Not Applicable N/AV = Not Available

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: C or D

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

Revision Changes Transposed to 16-Section (EU) format

USER RESPONSIBILITY Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

Prepared By

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