

Product Name MSDS Date **DCT DELIMER LIQUID** 

June 21, 2012

Revision No. 04

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#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT** 

Product Name DCT Delimer Liquid

Product ID Number DCT130410
Product Description Descaler

**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
Sulfamic acid	5329-14-6	not established		5 – 15	
Citric acid, anhydrous	77-92-9	not established		1 – 10	
Ammonium Citrate	3012-65-5	not established		1-3	
SECTION 3	HAZARDS IDENTIFICATION				

**EMERGENCY OVERVIEW** May cause skin, eye and respiratory irritation. Avoid direct contact with skin and eyes. Wash thoroughly after handling. Harmful if swallowed.

#### **POTENTIAL HEALTH EFFECTS**

**Acute Effects** 

**Inhalation** Moderate to severe irritation to respiratory tract.

**Eye** Moderate to severe irritation to the eyes in full concentration.

**Skin** Moderate to severe skin irritation and potential chemical burns in full concentration.

**Ingestion** May be harmful if swallowed

**Chronic Effects** Product has not been tested as a whole to determine its long-term effects.

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



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SECTION 4 FIRST AID MEASURES

**INHALATION** Remove to fresh air. Get medical attention if chemical burns exist or irritation persists.

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 chemical burns exist or irritation persists.

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

immediate medical attention if chemical burns exist or irritation persists.

INGESTION Do not induce vomiting. Wash out mouth with water and obtain medical attention. Treat

symptomatically. Get immediate medical attention. Never give anything by mouth to an

unconscious person.

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#### SECTION 5 FIRE FIGHTING MEASURES

Flash Point >200 F
Flash Point Method PMCC
Auto Ignition Temperature N/D

Flammable Limits: LEL - N/D UEL - N/D

Appropriate Extinguishing Media Dry Chemical, Foam, CO2

Fire Fighting Instructions Firefighters should wear self-contained breathing apparatus (SCBA) and protection for skin.

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; water vapor; unburned hydrocarbons; and other

unidentified organic and inorganic compounds.

## 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.

**GENERAL** Stop leak if you can do so without risk. Contain spill / release and prevent entry into sewer drains

and waterways. 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.



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**SECTION 6 ACCIDENTAL RELEASE MEASURES** continued

**SPILL OR LEAK PROCEDURES** Confine spill / release and absorb spilled material with noncombustible, inert absorbent

> such as sand, clay, or vermiculite and place into DOT-approved containers for later disposal or flush to wastewater treatment system for further treatment before discharging to POTW.

**SECTION 7** HANDLING AND STORAGE

**HANDLING** Avoid contact with skin, eyes, and clothing. Handle with care in full concentration.

Use in well ventilated areas.

Wash skin thoroughly after handling.

**STORAGE** Keep containers closed when not in use.

> Keep out of children's reach. Do not store above 120°F.

Store away from incompatible materials (see Section 10).

Do not mix with oxidizing materials.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION** 

**ENGINEERING CONTROLS** General ventilation should be provided so that exposure to airborne contaminants are not

exceeded

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection No protective equipment is needed under normal use conditions. Avoid breathing mists and

**Hand Protection** No protective equipment is needed under normal use conditions. If there is a potential for

exposure, gloves should be worn.

**Skin Protection** No protective equipment is needed under normal use conditions.

**Eye Protection** Safety glasses should be used if there is a potential for exposure.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES** 

**Appearance** Clear green **Physical State** Liquid

Odor mild fragrance

pН 1.1 - 1.5**Melting/Freezing Point** N/P

**Boiling Point** N/AV **Flash Point** >200 F

**Evaporation Rate (water = 1)** N/AV



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SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES	continued
Vapor Pressure	N/AV	
Vapor Density	N/AV	
Density (lb/gal)	N/AV	
Specific Gravity (water = 1)	1.22	
Solubility	Complete	
Volatile Organic Compounds (%	<b>6)</b> N/D	
Viscosity (cps)	N/D	

**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.

**Reactivity / Incompatibility** Strong oxidizing agents, strong acids, strong bases

**Hazardous Decomposition** 

Material does not decompose at ambient temperature. .

**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 Skin and Eye Irritation Data 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



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal 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.

SECTION 14

TRANSPORT INFORMATION

LAND (DOT)

**DOT Proper Shipping Name** Corrosive Liquid, N.O.S. (contains sulfamic acid and citric acid), 8, UN 1760,

PG II

DOT Hazard Class 8
DOT Subsidiary Risk N/A
DOT ID Number UN 1760
DOT Packaging Group PG II

SEA (IMDG)

IMDG Proper Shipping Name Corrosive Liquid, N.O.S. (contains sulfamic acid and citric), 8, UN 1760,

PG II

IMDG Hazard Class8IMDG Subsidiary RiskN/AIMDG ID NumberUN 1760IMDG Packaging GroupPG II

AIR (IATA)

IATA Proper Shipping Name Corrosive Liquid, N.O.S. (contains sulfamic acid and citric), 8, UN 1760,

PG II

IATA Hazard Class 8
IATA Subsidiary Risk N/A
IATA ID Number UN 1760
IATA Packaging Group II

**Additional Information** 

**DOT Shipping Description if quantities are equal to or less than 1.0 quart:** Corrosive Liquid, N.O.S. (contains sulfamic acid and citric acid), 8, UN 1760, PG II, Ltd Qty

**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



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SECTION 15 REGULATORY INFORMATION continued

**304 CERCLA RQ (302.4)** None **304 EHS RQ (40 CFR 116.4)** None

**State Regulations** 

California Prop. 65 N/A

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

OSHA CLASSIFICATION DANGER

WHMIS CLASSIFICATION D2B (Stylized T) and E (Corrosive Material)

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 **EINECS** N/AV CEPA (DSL/NDSL) **ENCS** Yes N/AV **AICS** N/AV KECI N/AV **IECSC** N/AV **PICCS** N/AV

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

\* In full concentration

HMIS RATING Health (Blue): 2\* Flammability (Red): 0 Reactivity (Yellow): 0

\* In full concentration

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

**Revision Changes** Format changes and updated MSDS to reflect conditions at use (Sections 2,3,4,5,7, 9.10 and 13

were updated)

**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. Users need to determine hazards based on the concentrations being

used.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE AND ON FULL CONCENTRATION. 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 EHS Department of Diversified Chemical Technologies, Inc. and Subsidiaries