

MATERIAL SAFETY DATA SHEET**Product Name****DCT Mark Out****MSDS Date****June 13, 2011****Revision No. 06**

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SECTION 1 **PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT**Product Name** **DCT Mark Out****Product ID Number** **100430****Product Description** D-Limonene-based Graffiti Remover**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
Dipropylene glycol methyl ether	34590-94-8	100 ppm	100 ppm	150 ppm STEL	10 – 20
D-limonene	5989-27-5				10 – 20
TS 1063 – Trade Secret					5 – 15
TS 1011 – Trade Secret					5 – 15

SECTION 3 **HAZARDS IDENTIFICATION**

******EMERGENCY OVERVIEW********COMBUSTIBLE LIQUID****Harmful if swallowed.****May be irritating to eyes, skin and/or respiratory tract if contact is frequent or prolonged.****May cause liver, kidney and/or blood effects with prolonged, repeated exposures.****PRIMARY ROUTES OF EXPOSURE**

Eyes, Skin, Inhalation, Ingestion

TARGET ORGANS

Eyes, Skin, Respiratory System

POTENTIAL HEALTH EFFECTS**Acute Effects****Inhalation** May cause irritation to respiratory tract upon prolonged, repeated exposures.**Eye** May cause irritation upon prolonged, repeated exposures.**Skin** May cause skin irritation upon prolonged, repeated exposure.**Ingestion** May be harmful if swallowed.

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SECTION 3**HAZARDS IDENTIFICATION****continued**

Chronic Effects

Product 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, Liver, Kidneys, Blood

Carcinogenicity

None

IARC: N/AP**NTP:** N/AP**OSHA:** N/AP**Medical Conditions Aggravated by Long-Term Exposure**

conditions

Possible pre-existing dermatitis; dry skin

SECTION 4**FIRST AID MEASURES**

INHALATION

Remove to fresh air. Rest in half-upright position. Get medical attention if 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 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 122 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

Unusual Fire or Explosion Hazards OSHA Combustible Liquid/DOT Flammable Liquid. Contaminated water runoff may cause environmental damage. Dike and collect water used to fight fire. May form floating hazard. Vapors may travel long distances before igniting.

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

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SECTION 5**FIRE FIGHTING MEASURES****continued**

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; partially oxidized organic compounds 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 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 PROCEDURES 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

OSHA Combustible/DOT Flammable liquid.
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.
Bond and ground whenever dispensing from one container into another.
Do not weld, burn, or torch containers containing this product.

Loading/Unloading Temperature [Ambient]

Transport Temperature [Ambient]

Transport Pressure [Ambient]

Static Accumulator yes

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.

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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.

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**

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 and pants at a minimum.

Other Protective Equipment

Emergency eyewash/safety shower in 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 orange

Physical State

Slightly viscous liquid

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SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES	continued
Odor	citrus	
pH	7.5 – 9.5	
Vapor Pressure	N/AV	
Vapor Density	N/AV	
Boiling Point	N/AV	
Melting Point	N/AV	
Specific Gravity (water = 1)	0.96 – 0.98	
Evaporation Rate (water = 1)	N/AV	
Volatile Organic Compounds (%)	N/D	
Solubility	Emulsion	
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.	
Conditions to Avoid	Extreme temperatures
Reactivity / Incompatibility	Strong oxidizing agents, strong acids
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: particulate matter and unburned, hydrocarbons; oxides of carbon; 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
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SECTION 11	TOXICOLOGICAL INFORMATION	continued
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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
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Product Ecological Information	N/AV
Ingredient Ecological Information	N/AV

SECTION 13	DISPOSAL CONSIDERATIONS
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EPA Waste ID Number

Full strength product is RCRA-hazardous (D001). 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

Wastewater treatment or fuel blending are preferred methods 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 according to applicable regulations.

SECTION 14	TRANSPORT INFORMATION
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LAND (DOT)

DOT Proper Shipping Name	Combustible Liquid, n.o.s. (contains 15% D-Limonene), 3, NA 1993, PG III
DOT Hazard Class	3
DOT Subsidiary Risk	N/AP
DOT ID Number	N/AP
DOT Packaging Group	PG III

SEA (IMDG)

IMDG Proper Shipping Name	Combustible Liquid, n.o.s. (contains 15% D-Limonene), 3, NA 1993, PG III
IMDG Hazard Class	3
IMDG Subsidiary Risk	N/AP

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SECTION 14	TRANSPORT INFORMATION	continued
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IMDG ID Number	N/AP
IMDG Packaging Group	PG III

AIR (IATA)

IATA Proper Shipping Name	Flammable Liquid, n.o.s. (contains 15% D-Limonene), 3, NA 1993, PG III
IATA Hazard Class	3
IATA Subsidiary Risk	N/AP
IATA ID Number	N/AP
IATA Packaging Group	III

Additional Information No DOT Label Required for Land Shipments (Only Placarad); DOT Flammable Label required for Air Shipments

SECTION 15	REGULATORY INFORMATION
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U.S. Federal Regulations

SARA Title III Section 311/312 Categorization (40 CFR 370) Acute – Immediate Hazard; Fire

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) and B (Flammable and Combustible 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
CEPA (DSL/NDL)	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): 2 Reactivity (Yellow): 0 Specific Hazard(s) (White): none
HMIS RATING	Health (Blue): 2 Flammability (Red): 2 Reactivity (Yellow): 0 Personal Protective Equipment: D

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

Revision Changes Updated REV Date/Level Only for WHMIS requirements; no other changes

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