

MATERIAL SAFETY DATA SHEET

Product Name DCT OVEN CLEANER

MSDS Date August 31, 2012

Revision No. 08

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SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name	DCT Oven Cleaner
Product ID Number	DCT130270
Product Description	Cleaner for Stainless Steel Ovens

COMPANY IDENTIFICATION

Supplier	Diversified Chemical Technologies, Inc. 15477 Woodrow Wilson Detroit, MI 48238 (313) 867-5444
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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
Potassium carbonate	584-08-7				1 – 5
Potassium hydroxide	1310-58-3	2 mg/m ³	2 mg/m ³		10 – 20
Triethylene glycol	112-27-6	1 ppm			1 – 5

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW Corrosive liquid may cause chemical burns and irritation to eyes, skin and respiratory tract. Harmful if swallowed. Avoid direct contact and repeated and prolonged exposure.

POTENTIAL HEALTH EFFECTS
Acute Effects

Inhalation	Moderate to severe irritation to respiratory tract upon prolonged and repeated exposures. May cause chemical burns on direct contact.
Eye	May cause chemical burns on direct contact. Moderate to severe irritation / chemical burns in full concentration.
Skin	Moderate to severe skin irritation / chemical burns in full concentration.
Ingestion	Harmful if swallowed. May cause burns to mouth, throat and stomach.

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

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

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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. 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.

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

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

Appropriate Extinguishing Media Dry Chemical, Foam, CO2

Unusual Fire or Explosion Hazards Flammable vapors may occur if mixed with water and air and heated sufficiently (approximately 350F and above).

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 Corrosive, 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. **National Response Center (Reporting): (800) 424-8802**
Potassium Hydroxide: RQ = 1000-lb

GENERAL Stop leak if you can do so without risk. Contain spill/release 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 or flush to wastewater treatment system for further treatment before discharging to POTW.

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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.
Avoid contact with reactive metals or their alloys (i.e. Al, Tin, or Zinc).

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).
Keep away from sparks, heat and flame.
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.

Hand Protection In full concentration or when contact is possible use chemical resistant gloves when handling

Skin Protection No protective equipment is needed under normal use conditions. In full concentration, use apron and long sleeves to avoid contact with skin.

Eye Protection In full concentration, if contact is likely, safety glasses or goggles are recommended. If splashing is likely, safety goggles with splash guards are recommended.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear light yellow
Physical State	Liquid
Odor	mild fragrance
pH	13.5 – 13.6
Melting Point	N/A
Boiling Point	N/AV
Flash Point	None
Evaporation Rate (water = 1)	N/AV
Vapor Pressure	N/AV
Vapor Density	N/AV
Density (lb/gal)	N/AV
Specific Gravity (water = 1)	1.1 – 1.2
Solubility	Complete
Volatile Organic Compounds (%)	N/D
Viscosity (cps)	N/D

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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** Reactive metals such as aluminum, tin, zinc, and alloys containing these metals**Reactivity / Incompatibility** Strong oxidizing agents, 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; 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

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

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal Neutralization with biological/chemical 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 according to applicable regulations.

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SECTION 14 TRANSPORT INFORMATION

LAND (DOT)

DOT Proper Shipping Name Corrosive Liquids, n.o.s. (contains potassium hydroxide), 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 Liquids, n.o.s. (contains potassium hydroxide), 8, UN 1760, PG II
IMDG Hazard Class 8
IMDG Subsidiary Risk N/A
IMDG ID Number UN 1760
IMDG Packaging Group PG II

AIR (IATA)

IATA Proper Shipping Name Corrosive Liquids, n.o.s. (contains potassium hydroxide), 8, UN 3266, PG II
IATA Hazard Class 8
IATA Subsidiary Risk N/A
IATA ID Number UN 1760
IATA Packaging Group II

Additional Information: Small Quantity Shipping - Quantities Equal To, or Less Than 0.3 Gallons (1 Liter)

Small Quantity Shipping Description: Quantities Equal To, or Less Than, 0.3 Gallons (1 Liter): Corrosive Liquids, n.o.s. (contains potassium hydroxide), 8, UN 1760, PG II, Ltd Qty

DOT Label(s)/Placard(s): Quantities Equal To, or Less Than, 0.3 Gallons (1 Liter): None Required
Quantities Greater Than 0.3 Gallons (1 Liter): Label: Class 8 (Corrosive) – Placard: UN1760

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:* Certain Glycol Ether Compounds (N230) – 2%

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/A

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SECTION 15	REGULATORY INFORMATION	continued
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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/NDL)	Yes	ENCS	N /AV
AICS	N /AV	KECI	N /AV
IECSC	N /AV	PICCS	N /AV

SECTION 16	OTHER INFORMATION	
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N/D = Not Determined **N/A = Not Applicable** **N/AV = Not Available**

NFPA RATING **Health (Blue): 3** **Flammability (Red): 0** **Reactivity (Yellow): 0**
Specific Hazard(s) (White): COR/ALK

HMIS RATING **Health (Blue): *3** **Flammability (Red): 0** **Reactivity (Yellow): 0**
Personal Protective Equipment: C or D

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.

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 EHS Department of Diversified Chemical Technologies, Inc. and Subsidiaries