

**MATERIAL SAFETY DATA SHEET****Product Name** DCT POWER-FORCE II**MSDS Date** March 29, 2011**Revision No.** 06

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**SECTION 1** **PRODUCT AND COMPANY IDENTIFICATION**

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**PRODUCT**

**Product Name** DCT Power-Force II  
**Product ID Number** 130500  
**Product Description** Cleaner for Stainless Steel Cooking Equipment

**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**

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**SECTION 2** **COMPOSITION / INFORMATION ON INGREDIENTS**

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Hazardous Ingredients	CAS Number	OSHA PEL	ACGIH TLV	OTHER	% WT
Sodium tripolyphosphate	7758-29-4	5 mg/m3	5 mg/m3 respirable		1 – 5
TS 1060 – Trade Secret		15 mg/m3	10 mg/3		1 – 5
TS 1012 – Trade Secret		2 mg/m3 C	2 mg/m3 C	250 mg/m3 IDLH	10 – 20
Potassium hydroxide 45%	1310-58-3	2 mg/m3	2 mg/m3		35 – 45
TS 1097 – Trade Secret		not established			1 – 5

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

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**\*\*\*\*EMERGENCY OVERVIEW\*\*\*\*****CORROSIVE****Harmful if swallowed.****Can cause chemical burns to eyes, skin, respiratory tract, and/or digestive tract upon direct contact.****May 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, Ingestion**POTENTIAL HEALTH EFFECTS****Acute Effects**

**Inhalation** Can cause chemical burns upon direct contact. May cause moderate to severe irritation to respiratory tract upon prolonged, repeated exposures.

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

<b>Eye</b>	Can cause chemical burns upon direct contact. May cause moderate to severe irritation upon prolonged, repeated exposures.
<b>Skin</b>	Can cause chemical burns upon direct contact. May cause moderate to severe skin irritation upon prolonged, repeated exposure.
<b>Ingestion</b>	Harmful if swallowed.

**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

**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; Overexposure to mist may aggravate existing respiratory conditions

**SECTION 4****FIRST AID MEASURES****INHALATION**

Remove to fresh air. Rest in half-upright position. 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.

**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

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

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**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; and other unidentified organic and inorganic compounds.

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**SECTION 6****ACCIDENTAL RELEASE MEASURES**

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**NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Sodium Hydroxide: RQ = 1000-lb; Potassium Hydroxide: RQ = 1000-lb  
National Response Center (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 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**

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**HANDLING**

Corrosive 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.

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

**Loading/Unloading Temperature**

[Ambient]

**Transport Temperature**

[Ambient]

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**SECTION 7****HANDLING AND STORAGE****continued****Transport Pressure**

[Ambient]

**Static Accumulator**

N/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 mix with oxidizing materials.  
Avoid contact with reactive metals or their alloys (i.e. Al, Tin, or Zinc).

**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 and HEPA Filter 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 glasses with side shields are recommended. If splashing is likely, safety goggles or safety glasses with splash shield are required.

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**SECTION 8** **EXPOSURE CONTROLS / PERSONAL PROTECTION** **continued**

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**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. If prolonged or repeated contact is likely, chemical-resistant clothing is recommended.

**Other Protective Equipment** Emergency eyewash/safety shower in immediate area(s).

**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.

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**SECTION 9** **PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance</b>	Clear green
<b>Physical State</b>	Liquid
<b>Odor</b>	mild
<b>pH</b>	>14
<b>Vapor Pressure</b>	N/AV
<b>Vapor Density</b>	N/AV
<b>Boiling Point</b>	N/AV
<b>Melting Point</b>	N/P
<b>Specific Gravity (water = 1)</b>	1.30 – 1.32
<b>Evaporation Rate (water = 1)</b>	N/AV
<b>Volatile Organic Compounds (%)</b>	N/D
<b>Solubility</b>	Complete
<b>Viscosity (cps)</b>	N/D

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**SECTION 10** **STABILITY / REACTIVITY**

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**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, 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; oxides of potassium; water vapor; and other unidentified organic and inorganic compounds.

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**SECTION 10** **STABILITY / REACTIVITY** **continued**

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**Hazardous Polymerization** Will not occur.

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**SECTION 11** **TOXICOLOGICAL INFORMATION**

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**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

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**SECTION 12** **ECOLOGICAL INFORMATION**

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**Product Ecological Information** N/AV**Ingredient Ecological Information** N/AV

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**SECTION 13** **DISPOSAL CONSIDERATIONS**

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**EPA Waste ID Number**

Full strength material exhibits the corrosive characteristic (D002) and is considered RCRA-hazardous. 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 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.

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**SECTION 13** **DISPOSAL CONSIDERATIONS** **continued**

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**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**

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**LAND (DOT)**

<b>DOT Proper Shipping Name</b>	Corrosive Liquid, basic, inorganic, n.o.s. (contains sodium hydroxide and potassium hydroxide), 8, UN3266, PG II, RQ = 1000-lb
<b>DOT Hazard Class</b>	8
<b>DOT Subsidiary Risk</b>	N/AP
<b>DOT ID Number</b>	UN3266
<b>DOT Packaging Group</b>	PG II

**SEA (IMDG)**

<b>IMDG Proper Shipping Name</b>	Corrosive Liquid, basic, inorganic, n.o.s. (contains sodium hydroxide and potassium hydroxide), 8, UN3266, PG II, RQ = 1000-lb
<b>IMDG Hazard Class</b>	8
<b>IMDG Subsidiary Risk</b>	N/AP
<b>IMDG ID Number</b>	UN3266
<b>IMDG Packaging Group</b>	PG II

**AIR (IATA)**

<b>IATA Proper Shipping Name</b>	Corrosive Liquid, basic, inorganic, n.o.s. (contains sodium hydroxide and potassium hydroxide), 8, UN3266, PG II, RQ = 1000-lb
<b>IATA Hazard Class</b>	8
<b>IATA Subsidiary Risk</b>	N/AP
<b>IATA ID Number</b>	UN3266
<b>IATA Packaging Group</b>	II

**Additional Information**

**DOT Shipping Description if quantities are equal to or less than 1 quart:**  
Corrosive Liquid, basic, inorganic, n.o.s. (contains sodium hydroxide and potassium hydroxide), 8, UN3266, PG II, Ltd Qty

**DOT Label/Placard if quantities are equal to or less than 1 quart:** none required

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**SECTION 15** **REGULATORY INFORMATION**

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**SECTION 15****REGULATORY INFORMATION****continued**

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**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**

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**CEPA (DSL/NDL)** Yes**AICS** N /AV**IECSC** N /AV**EINECS** N /AV**ENCS** N /AV**KECI** N /AV**PICCS** N /AV**Additional Information**

NONE

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**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:** D or F



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**SECTION 16****OTHER INFORMATION****continued**

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**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS****Revision Changes**

Changes to Section 14

**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*