



SAFETY DATA SHEET

Preparation Date: Jun 16, 2017
Supersedes Date: Dec 01, 2014

Version Number: 15

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

Product Name DCT Heavy Duty Degreaser
Product Form Concentrate / Made from Concentrate (Diluted from concentrate to 50%) / Ready-to-Use
Product ID Number DCT130010
PGP Number 6-50

RECOMMENDED USE AND RESTRICTIONS ON USE

Food Grade Industrial Cleaner

COMPANY IDENTIFICATION

Manufacturer Diversified Chemical Technologies, Inc.
15477 Woodrow Wilson, Detroit, MI 48238
(313) 867-5444

EMERGENCY TELEPHONE NUMBER

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

SECTION 2 HAZARDS IDENTIFICATION

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and Workplace Hazardous Materials Information System (WHMIS) 2015, and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

GHS CLASSIFICATION

Product has not been tested as a whole to determine its GHS classification. Hazard categories are based on individual ingredient hazard categories. Refer Section 16 for complete GHS Phrases.

	DCT Heavy Duty Degreaser		
	Concentrate	Made from Concentrate (MFC)	Ready-to-Use (RTU)
Hazard Class <i>Skin Corrosion/Irritation</i>	1A-1C	N/A	1A-1C
Hazard Class <i>Serious Eye Damage/Eye Irritation</i>	1	N/A	1
Pictogram		None	
GHS Signal Word	DANGER	N/A	DANGER
GHS Hazard Phrases	Causes severe skin burns and eye damage. Causes serious eye damage.	No phrases apply	Causes severe skin burns and eye damage. Causes serious eye damage.
GHS Precaution Phrases	Do not breathe spray. Wash hands thoroughly after handling.	No phrases apply	Do not breathe spray. Wash hands thoroughly after handling.

	Wear protective gloves and eye protection. Wash contaminated clothing before reuse.		Wear protective gloves and eye protection. Wash contaminated clothing before reuse.
GHS Response Phrases	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor if condition worsens.	No phrases apply	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a doctor if condition worsens.
GHS Storage and Disposal Phrases	Store locked up. Dispose of contents/container to <i>...licensed professional waste disposal service or contact your regulatory department.</i>	No phrases apply	Store locked up. Dispose of contents/container to <i>...licensed professional waste disposal service or contact your regulatory department.</i>

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Ingredients*	Percentage Range		
		Concentrate	Made from Concentrate (MFC)	Ready-to-Use (RTU)
7320-34-5	Potassium pyrophosphate	1 - 5	0.5 - 2.5	1 - 5
7758-29-4	Sodium phosphate, Tribasic	1 - 10	0.5 - 5	1 - 10
1310-73-2	Sodium hydroxide	1 - 10	0.5 - 5	1 - 10
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	1 - 10	0.5 - 5	1 - 10

*Identity of other chemicals and/or exact percentage (concentration) has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

IN CASE OF INHALATION

Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

IN CASE OF SKIN CONTACT

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

IN CASE OF EYE CONTACT

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

IN CASE OF INGESTION

Do NOT induce vomiting. If victim is conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been investigated

NOTE TO PHYSICIAN

Treat symptomatically and supportively. 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.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point	212 °F
Flash Point Method	PMCC

Explosive Limits	<i>LEL:</i> N/D	<i>UEL:</i> N/D
Auto Ignition Point	N/D	

SUITABLE EXTINGUISHING MEDIA Use water spray, dry chemical, carbon dioxide, or chemical foam.

FIRE FIGHTING INSTRUCTIONS As in any fire, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

FLAMMABLE PROPERTIES AND HAZARDS No data available

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.

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.

CONTAINMENT AND CLEANUP

Avoid runoff into sanitary and storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions. Absorb spill with inert material and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING

Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

PRECAUTIONS TO BE TAKEN IN STORAGE

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep out of reach of children. Keep away from water. Corrosives area. Do not store in reactive metal containers (i.e. aluminum, tin, zinc and/or their alloys). Protect from freeze and high temperatures (>140 °F). Keep away from sparks, heat and flame.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS #	Ingredients	OSHA TWA	ACGIH TWA	Other Limits
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	N/A
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	N/A

ENGINEERING CONTROLS

The level of ventilation necessary will vary depending upon potential exposure conditions. Adequate ventilation should be provided so that exposure limits are not exceeded. If heavy misting is present, local exhaust ventilation should be considered in addition to general mechanical ventilation.

WORK/HYGIENIC/MAINTENANCE PRACTICES

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.

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 None required under normal intended conditions of product use. However, 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.

Hand Protection For MFC: No protective equipment is needed under normal use conditions. For Concentrate & RTU: Wear appropriate protective gloves to prevent skin exposure. 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 rubber/Neoprene.**

Eye Protection For MFC: No protective equipment is needed under normal use conditions. For Concentrate & RTU: Safety glasses are recommended. If splashing is likely, safety goggles or safety glasses with splash shield are recommended. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and Body Protection For MFC: No protective equipment is needed under normal use conditions. For Concentrate & RTU: 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 For MFC: None required under normal use conditions. For Concentrate & RTU: Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

	DCT Heavy Duty Degreaser		
	Concentrate:	Made from concentrate (MFC):	Ready-to-use (RTU):
Appearance	Clear Purple	Clear Purple	Clear Purple
Physical State	Liquid	Liquid	Liquid
Odor	Mild Fragrance	Mild Fragrance	Mild Fragrance
pH	12.7 - 12.9	8 – 9 (calculated)	12.7 - 12.9
Melting Point	N/A	N/A	N/A
Boiling Point	N/A	N/A	N/A
Specific Gravity (water = 1)	1.16-1.18	1.16-1.18	1.16-1.18
Vapor Pressure	N/D	N/D	N/D
Viscosity	N/AV	N/AV	N/AV
Evaporation Rate (water = 1)	N/D	N/D	N/D
Volatile Organic Compounds (%)	N/D	N/D	N/D
Solubility in Water	N/D	N/D	N/D

SECTION 10 STABILITY / REACTIVITY

Product Name: DCT Heavy Duty Degreaser

Preparation Date: Jun 16, 2017

Chemical Stability	<i>Unstable</i> [] <i>Stable</i> [X]
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. 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; and other unidentified organic and inorganic compounds.
Hazardous Reactions	<i>Will occur</i> [] <i>Will not occur</i> [X]

SECTION 11 TOXICOLOGICAL INFORMATION

CARCINOGENICITY

No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

IARC: N/AV ACGIH: N/AV NTP: N/AV

PRODUCT TOXICOLOGICAL DATA

Product is not tested for classification under the following categories:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Skin Corrosion/Irritation, Serious Eye Damage/Irritation, Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard

INGREDIENT TOXICOLOGICAL DATA

None of the ingredients above 1% concentration (0.1% for carcinogens) trigger the hazard rating or classify under the following categories, unless indicated below:

LD50 (Oral), LC50 (Inhalation), Dermal Toxicity (Skin), Respiratory/ Skin Sensitization, Germ Cell Mutagenicity, Carcinogenicity, Reproductive Toxicity, STOT-single exposure, STOR-repeated exposure, Aspiration Hazard
Serious Eye Damage/Irritation: 34590-94-8: Eyes – Rabbit - Mild eye irritation

SECTION 12 ECOLOGICAL INFORMATION

General Ecological Information	N/AV.	Persistence and Degradability	N/AV
Bioaccumulative Potential	N/AV.	Mobility in Soil	N/AV

SECTION 13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Contact a licensed professional waste disposal service to dispose of this material. Preferred method of disposal is to dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Contaminated Packaging	Dispose of as unused product.
Empty Containers	Clean empty containers of any residue per 40CFR261.7 guidelines and either recycle containers or dispose of in normal trash.

SECTION 14 TRANSPORT INFORMATION

	DCT Heavy Duty Degreaser								
	Concentrate			Made from Concentrate (MFC):			Ready-to-use (RTU):		
	LAND (US DOT)	MARINE (IMDG)	AIR (IATA)	LAND (US DOT)	MARINE (IMDG)	AIR (IATA)	LAND (US DOT)	MARINE (IMDG)	AIR (IATA)
Proper Shipping Name	Corrosive Liquids, n.o.s. (contains and sodium hydroxide)			Not regulated			Corrosive Liquids, n.o.s. (contains and sodium hydroxide)		
Hazard Class	8			Not regulated			8		
ID Number	UN 1760			Not regulated			UN 1760		
Packaging Group	III			Not regulated			III		
Additional Information									
<i>DOT Quantity Limitations:</i>	5L			N/A			5L		
<i>DOT Label for Limited Quantities:</i>	LQ diamond per 49CFR172.315			N/A			LQ diamond per 49CFR172.315		

SECTION 15 REGULATORY INFORMATION

EPA SARA (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986) LISTS

[302 (EHS) TPQ, CERCLA RQ, 304 EHS RQ, 313 TRI]

None of the ingredients above 1% concentration (0.1% for carcinogens) are identified in the lists, except:

7758-29-4; Sodium phosphate, Tribasic – 304 RQ; 5000 LB

1310-73-2; Sodium hydroxide – 304 RQ; 1000 LB

SARA TITLE III SECTION 311/312 CATEGORIZATION (40 CFR 370)	Yes	No
Acute (immediate) Health Hazard	X	
Chronic (delayed) Health Hazard		X
Fire Hazard		X
Sudden Release of Pressure Hazard		X
Reactive Hazard		X

STATE AND OTHER US EPA REGULATIONS

California Prop. 65 N/AP

NATIONAL INVENTORIES

TSCA	Yes
CAA HAP, ODC	No
CWA NPDES	No

CEPA (DSL/NDL)	Yes
KECI	N/D
AICS	N/D
IECSC	N/D

EINECS	N/D
ENCS	N/D
PICCS	N/D

SECTION 16 OTHER INFORMATION

	DCT Heavy Duty Degreaser
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Product Name: DCT Heavy Duty Degreaser

Preparation Date: Jun 16, 2017

	Concentrate:	Made from Concentrate (MFC):	Ready-to-use (RTU):
NFPA Rating:			
<i>Health (Blue)</i>	3	0	3
<i>Flammability (Red)</i>	0	0	0
<i>Reactivity (Yellow)</i>	0	0	0
<i>Specific Hazard(s) (White)</i>	COR/ALK	None	COR/ALK
HMIS Rating:			
<i>Health (Blue)</i>	3	0	3
<i>Flammability (Red)</i>	0	0	0
<i>Reactivity (Yellow)</i>	0	0	0
<i>Personal Protective Equipment</i>	C or D	None	C or D

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

Conversion from EU format MSDS to GHS format SDS; Ingredient/concentration

15: SDS aligns with WHMIS 2015. No change in hazard classification & rating; SDS combined for different concentration.

USER RESPONSIBILITY

It is the user's responsibility to determine the suitability and adopt precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of this product.

PREPARED BY

Environmental, Health and Safety Department of Diversified Chemical Technologies, Inc. and Subsidiaries

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