

MATERIAL SAFETY DATA SHEET
Prepared according to CFR 1910.1200

Health: 2 Fire: 1 Reactivity: 0

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ASSISTANCE (CHEMTREC) 800-424-9300

Direct Colors™
430 E. 10th St.
Shawnee, OK 74801

Section I – Identification & Product Information:

Product Name:	DCI™ Heavy Duty Organic Degreaser
Formula:	Proprietary
Chemical Family:	Cleaning Compound, Liquid
Packing Group:	III
Proper DOT Shipping Name:	Cleaning Compound, Liquid, N.O.S.
DOT Hazard Classification:	Not Regulated
DOT Hazard Label:	Not Regulated
Identification Number:	None

Section II – Hazardous Ingredients:

Chemical Name	CAS Number	%	OSHA (PEL) ACGIH (TLV) OSHA (STEL)		
			TWA	TWA	TWA
Ethylene Glycol Butyl Ether	000111-76-2	14	50 ppm	25 ppm	N/E
Tetrapotassium Pyrophosphate	007320-34-5	2	N/E	N/E	N/E

N/E – None Established N/A Not Applicable

Note: If this product contains chemical subject to the reporting requirements of Section 313 of EPCRA of 1986, They will be listed in Section 11.

Section III – Physical/Chemical Characteristics:

Appearance:	Clear blue liquid with mild glycol ether odor
Boiling Range (760 mm Hg):	>212 °F
Melting Range (760 mm Hg):	Not Determined
Vapor Pressure (mm Hg):	<1 @20°C (63°F)
Vapor Density (Air=1):	>1
Specific Gravity (Water=1):	1.015 – 1.035 (1.025 Nominal)
% Volatile (By Weight, Excluding Water):	14
Evaporation Rate (BuAc =1):	<1
Solubility (In Water):	Complete
pH (Concentrate):	12.00 – 13.00
pH (2.5% Aqueous Solution):	10.00 – 11.00

Section IV – Fire & Explosion Hazard Data

Flash Point (TAG Closed Cup): >200 °F (ASTM D93)
Upper Flammable Limit (% In Air): Not Determined
Lower Flammable Limit (% In Air): Not Determined
Extinguishing Media: Water spray, dry chemical, carbon dioxide, Use water spray to cool nearby containers and structures exposed to fire.

Special Fire Fighting Procedures: Evacuate non-emergency personnel to a safe area. Contact emergency personnel as necessary. Avoid breathing smoke, fumes and decomposition products. As in any fire, wear self-contained breathing apparatus pressure-demand MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire & Explosion Hazards: None Known

Section V – Reactivity Data

Stability: Stable under normal use and storage conditions
Conditions to Avoid: Excessive heat, open flames, sparks or any other ignition source.
Materials to Avoid: Contact with strong oxidizing or reducing agents
Hazardous Decomposition Products: Burning can produce the following decomposition products: Oxides of carbon, silicon and nitrogen, Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Hazardous Polymerization: Will Not Occur

Section VI – Health Hazard Data

Threshold Limit Value (TLV): None Established. See Section II for TLV's of hazardous ingredients in this product.

Permissible Exposure Level (PEL): None Established. See Section II for PEL's of hazardous ingredients in this product.

Primary Route(s) of Exposure: Skin and eye contact, inhalation of vapors and mists
Eye Contact: Eye Contact can cause mild to moderate irritation, redness and itching

Skin Contact:	Prolonged exposure can cause skin irritation. May cause red blood cell hemolysis and possible liver and kidney injury from glycol ether component.
Ingestion:	Can cause nausea, vomiting and gastrointestinal upset (diarrhea). May cause red blood cell hemolysis and possible liver and kidney injury from either component.
Inhalation:	High vapor concentrations can be irritating to the throat and nose, causing stinging and watering of the eyes. At high concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur. Inhalation of aerosols may cause irritant effects including nasal discomfort and discharge, cough, production of sputum, discomfort in the chest and possibly difficulty with breathing.
Chronic Effects of Exposure:	Repeated contact with the skin may cause a severe cumulative dermatitis. Long term repeated exposure to aerosols from undiluted or aqueous material may result in irritation and injury of the respiratory tract. May cause red blood cell hemolysis and possible liver and kidney injury from glycol ether component.
Medical Conditions Generally Aggravated By Exposure:	Skin contact may aggravate an existing dermatitis

Section VII –Emergency & First Aid Procedures

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open during this flushing with water. After initial flushing, remove any contact lenses and continuing flushing for at least 15 minutes. Get immediate medical attention.
Skin Contact:	Immediately wash thoroughly with soap and water, then flush with plenty of water. Remove contaminated clothing and do not reuse before washing. Get immediate medical attention.

Ingestion:	Call a physician. Unless otherwise advised by a physician, induce vomiting. Get immediate medical attention.
Inhalation:	Remove to fresh air. If not breathing, administer respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get immediate medical attention.
NOTE TO PHYSICIAN:	No specific antidote is known. Therapy is directed at preventing absorption, administering to the symptoms as they occur and providing supportive therapy.

Section VIII – Toxicity Data – Ingredients Listed as Carcinogens

Chemical Name	CAS Number	NTP	IARC	ACGIH	SUBPART Z	OSHA
Ethylene Glycol Butyl Ether	000111-76-2	No	No	No	No	No
Tetrapotassium Pyrophosphate	007320-34-5	No	No	No	No	No

Section IX – Personal Protection Equipment Information

Respiratory Protection:	Use NIOSH/NSHA approved filter respirator for routine work purposes when exposure to dusts or mists exceed the permissible exposure level (PEL). The respirator use limitations made my NIOSH/NSHA 20 CFR 1910.134.
Ventilation:	Use ventilation adequate to keep exposures to hazardous ingredients below their Threshold Limit Values (TLV) or Permissible Exposure Level (PEL). See Section II. Local exhaust should be sufficient to maintain dust and mist levels below the PEL.
Eye Protection:	Chemical splash goggles if eye contact is likely.
Protective Gloves:	Impervious gloves (rubber or neoprene)
Other Protective Equipment:	Appropriate protective clothing if working with concentrated products. Products at use dilution MAY present less risk but protective clothing should still be worn.

Section X – Disposal Information

Material Spill or Release:

Steps to be taken: Wear protective equipment including rubber boots, rubber gloves, rubber apron and a self contained breathing apparatus in the pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full face piece air-purifying cartridge respirator equipped for organic vapors may be satisfactory. In any event, always wear eye protection.

For larger spills, contain by diking with soil or other non-combustible sorbent material and then pump into DOT approved waste containers, or absorb with non-combustible sorbent material, place in DOT waste containers. KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS AND SOILS. Comply with all applicable government regulations on spill reporting, handling and disposal of waste.

Waste Disposal Method:

Dispose of contaminated material in accordance with all Federal, State and Local regulations. Recycle is feasible or treat at an industrial or liquid waste facility.

Section XI – Federal Regulatory Information

Chemical Name	CAS Number	%	Clean Air Act	313 Toxic Chemicals	Reportable CERCLA Quantity (Lbs.)	Reportable
						Product Quantity (Lbs.)
Ethylene Glycol Butyl Ether	000111-76-2	14.0	Yes	Yes	None	0
Tetrapotassium Pyrophosphate	007320-34-5	2.0	No	No	5000	250,000

Section XII – State Regulatory Information

Chemical Name	CAS Number	%	State Lists	Miscellaneous	Proposition 65
Ethylene Glycol Butyl Ether	000111-76-2	14.0	MA1, NJ1, PA1	None	No
Tetrapotassium Pyrophosphate	007320-34-5	2.0	MA1, MJ1, PA1E	None	No

Section XII – Handling Precautions

Precautions to be taken:

Avoid skin and eye contact.

During Handling and Storage:

Avoid excessive inhalation of vapors and mist. Wash thoroughly after handling. Clean contaminated clothing before reuse. Store in a cool,

well ventilated place away from incompatible chemicals and materials.

Other Precautions:

Any eye/face fountain and deluge shower should be available in the work area. Empty containers may retain vapors or product residue.

Always obey hazard warnings and handle empty containers as if they were full. Do not get in eyes, on skin or clothing. Do not swallow. Do not breathe vapors or mist. Do not eat or smoke in work area containing chemicals.

Section XIV – Users Responsibility

The information contained herein is derived from upstream Material Safety Data Sheets and other references, considered, to the best of our knowledge and belief, to be accurate and reliable, but not guaranteed to be so. Since conditions of handling and use are beyond our control, no warranties, express or implied, are made.

The responsibility to provide a safe workplace lies with the user. The user should review the health hazards and safety information presented in this Material Safety Data Sheet and implement those safety procedures that are needed to insure a safe work environment in your facility.

It is also the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.

END OF MSDS