

MATERIAL SAFETY DATA SHEET**Product Name** DCT Produce Mirror Cleaner**MSDS Date** August 14, 2009**Revision No.** 03

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SECTION 1 **PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT

Product Name DCT Produce Mirror Cleaner
Product ID Number 130430
Product Description Glass Cleaner

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
Acetic acid glacial	64-19-7	10 ppm	10 ppm	15ppm STEL	1 – 10
TS 1060 – Trade Secret		400 ppm	500 ppm STEL		1 – 5

SECTION 3 **HAZARDS IDENTIFICATION**

******EMERGENCY OVERVIEW********May be harmful if swallowed.****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 May cause moderate to severe irritation to respiratory tract upon prolonged, repeated exposures.
Eye May cause moderate to severe irritation upon prolonged, repeated exposures.
Skin May cause moderate to severe 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

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 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 >200 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 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.

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

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; 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 or flush to wastewater treatment system for further treatment before discharging to POTW.

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.

Loading/Unloading Temperature	[Ambient]
Transport Temperature	[Ambient]
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.

SECTION 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

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.

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**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

Appearance	Clear light blue
Physical State	Liquid
Odor	light vinegar
pH	2.3 – 2.8
Vapor Pressure	N/AV
Vapor Density	N/AV
Boiling Point	N/AV
Melting Point	N/P
Specific Gravity (water = 1)	0.99 – 1.01
Evaporation Rate (water = 1)	N/AV
Volatile Organic Compounds (%)	N/D
Solubility	Complete
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 Extremely high temperatures; 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

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SECTION 11 TOXICOLOGICAL INFORMATION continued

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

EPA Waste ID Number

Check pH before disposal. If pH is equal to, or less than, 2.5, the 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

Recycling or biological/chemical wastewater treatment 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

LAND (DOT)

DOT Proper Shipping Name	none required Not DOT-Regulated per Corrositex Test No. 17951)
DOT Hazard Class	N/AP
DOT Subsidiary Risk	N/AP
DOT ID Number	N/AP
DOT Packaging Group	N/AP

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SECTION 14 **TRANSPORT INFORMATION** **continued**

SEA (IMDG)

IMDG Proper Shipping Name	none required Not DOT-Regulated per Corrositex Test No. 17951)
IMDG Hazard Class	N/AP
IMDG Subsidiary Risk	N/AP
IMDG ID Number	N/AP
IMDG Packaging Group	N/AP

AIR (IATA)

IATA Proper Shipping Name	none required Not DOT-Regulated per Corrositex Test No. 17951)
IATA Hazard Class	N/AP
IATA Subsidiary Risk	N/AP
IATA ID Number	N/AP
IATA Packaging Group	N/AP

Additional Information N/AP

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)	<i>This product contains a chemical(s)</i> <i>subject to the reporting requirements of Section 313 of Title III of SARA:</i> 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** CAUTION**WHMIS CLASSIFICATION** D2B (Stylized T)*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

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SECTION 15	REGULATORY INFORMATION	continued
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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

SECTION 16	OTHER INFORMATION
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N/D = Not Determined

N/A = Not Applicable

N/AV = Not Available

NFPA RATING	Health (Blue): 1	Flammability (Red): 1	Reactivity (Yellow): 0
	Specific Hazard(s) (White): ACID		

HMIS RATING	Health (Blue): 1	Flammability (Red): 1	Reactivity (Yellow): 0
	Personal Protective Equipment: C or D		

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

Revision Changes	Conversion to 16-Section (EU) Format
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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