



SAFETY DATA SHEET

Preparation Date: Nov 25, 2014
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Version Number: 11

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

Product Name DCT Freezer Cleaner
Product Use Liquid Ready-to-Use
Product ID Number DCT130190
PGP Number 9-74

RECOMMENDED USE AND RESTRICTIONS ON USE

Walk-in Freezer 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

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 additional GHS Phrases.

Hazard Class	Hazard Category
Skin Corrosion/Irritation	3
Serious Eye Damage/Eye Irritation	2A
Specific Target Organ Toxicity (single exposure)	3

GHS LABEL ELEMENTS

Pictogram



GHS Signal Word

WARNING

GHS Hazard Phrases

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

GHS Precaution Phrases

Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Use personal protective equipment as required.
Avoid breathing fume/gas/mist/vapors/spray.

GHS Response Phrases

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs, get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

If exposed or concerned: Get medical attention/advice.

If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and Disposal Phrases

Dispose of contents/container to...*licensed professional waste disposal service or contact your regulatory department.*

Store container tightly closed in well-ventilated place - if product is as volatile as to generate hazardous atmosphere.

POTENTIAL HEALTH EFFECTS (Acute and Chronic)

Chronic: Product has not been tested as a whole to determine its long-term effects. The product does contain ingredients that potentially may affect from repeated excessive exposures.

Acute- Inhalation May cause respiratory tract irritation. May be harmful if inhaled.

Acute-Skin Contact Causes skin irritation. May be harmful if absorbed through skin.

Acute-Eye Contact Causes eye irritation.

Acute-Ingestion Harmful if swallowed. May cause irritation of the digestive tract.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

CAS Number	Ingredients*	Percentage Range
57-55-6	Propylene glycol	40 - 50
67-63-0	Isopropyl alcohol	1 – 10
141-43-5	Ethanol, 2-Amino	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	LEL: N/D	UEL: N/D
Auto Ignition Point	N/D	

SUITABLE EXTINGUISHING MEDIA

Water may be ineffective. For large fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray. For small fires, use carbon dioxide, dry chemical, dry sand, or alcohol-resistant foam. Cool containers with flooding quantities of water until well after fire is out.

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. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

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. 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
141-43-5	Ethanol, 2-Amino	PEL: 3 ppm	TLV: 3 ppm; STEL: 6 ppm	N/A
67-63-0	Isopropyl alcohol	PEL: 400 ppm	TLV: 200 ppm; STEL: 400 ppm	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 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:

Latex or Nitrile.

Eye Protection 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 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 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

Appearance	Clear
Physical State	Liquid
Odor	Light alcohol
pH	9.4 – 10.4
Melting Point	N/A
Boiling Point	N/A

Specific Gravity (water = 1)	1.00 - 1.01
Vapor Pressure	N/D
Viscosity	N/AV
Evaporation Rate (water = 1)	N/D
Volatile Organic Compounds (%)	47.6
Solubility in Water	Completely

SECTION 10

STABILITY / REACTIVITY

Chemical Stability *Unstable* [] *Stable* [X]

Conditions to Avoid Excess heat

Reactivity / Incompatibility Strong oxidizing agents, strong acids, isocyanates.

Hazardous Decomposition Material does not decompose at ambient temperature. Incomplete combustion or thermal decomposition may be expected to generate such materials as: particulate matter and unburned, hydrocarbons, carbon oxides, nitrogen oxides (NOx),; and other unidentified organic and inorganic compounds.

Hazardous Reactions *Will occur* [] *Will not occur* [X]

SECTION 11

TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Product is not tested for 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, except as identified below;

IARC: Not Listed

ACGIH: Not Listed

NTP: Not Listed

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:

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

LD50 (Oral): CAS 57-55-6; Rabbit- Oral; 18500 mg/kg; **Skin Corrosion/Irritation:** CAS 57-55-6; SDT (*Standard Draize Test*)– Human Skin; 10 mg

SECTION 12

ECOLOGICAL INFORMATION

General Ecological Information

CAS# 57-55-6, Propylene glycol: Ecotoxicity: Water flea Daphnia: EC50 10000 mg/L; 48 Hr Unspecified, Bacteria: *Phytobacterium phosphoreum*: EC50 = 710 mg/L; 30 min; Microtox testFish: Goldfish: LC50 5000 mg/L; 24 Hr; UnspecifiedFish: Guppy: LC50 1000 mg/L; 48 Hr;

Environmental: If released to the atmosphere, it is degraded rapidly by reaction with photochemically produced hydroxyl radicals (typical half-life of 32 hr). Physical removal from air by rainfall is possible.

Persistence and Degradability: If released to water, 1,2-propanediol is expected to degrade relatively rapidly via biodegradation.

Mobility in Soil: If released to soil, relatively rapid biodegradation should also occur. Significant leaching in soil can be predicted.

General Ecological Information

CAS# 67-63-0, Isopropyl alcohol: Fish: Fathead Minnow: 1000 ppm; 96h; LC50Daphnia: 1000 ppm; 96h

Bioaccumulative Potential IPA has a high biochemical oxygen demand and a potential to cause oxygen depletion in aqueous systems, a low potential to affect aquatic organisms, a low potential to affect secondary waste treatment microbial metabolism, a low potential to affect the germination of some plants, a high potential to biodegrade (low persistence) with unacclimated microorganisms from activated sludge.

Physical: THOD: 2.40 g oxygen/gCOD: 2.23 g oxygen/gBOD-5: 1.19-1.72 g oxygen/g.

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.

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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

dispose of in normal trash.

Clean empty containers of any residue per 40CFR261.7 guidelines and either recycle containers or

SECTION 14

TRANSPORT INFORMATION

	LAND (US DOT)	MARINE (IMDG)	AIR (IATA)
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Hazard Class	Not regulated	Not regulated	Not regulated
ID Number	Not regulated	Not regulated	Not regulated
Packaging Group	Not regulated	Not regulated	Not regulated

Additional Information

DOT Quantity Limitation and Label for Limited Quantities: N/A

SECTION 15

REGULATORY INFORMATION

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

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

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

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

WHMIS CLASSIFICATION (1988) 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
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

ADDITIONAL GHS PHRASES

GHS phrases provided below are in addition to the phrases available in Section 2. GHS phrases are identified in accordance with GHS regulations and are triggered for each hazard category.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

In case of fire, use (refer Section 5)... to extinguish.

NFPA RATING

Health (Blue): 1 Flammability (Red): 0 Reactivity (Yellow): 0 Specific Hazard(s) (White): None

HMIS RATING

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

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

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

Corporate Environment/Health and Safety Department of Diversified Chemical Technologies, Inc. and Subsidiaries

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