

Product Name MSDS Date DCT Hand Sanitizer
June 14, 2011

Revision No. 06

Page 1 of 8

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name DCT Hand Sanitizer

Product ID Number N/AV

Product Description Hand Sanitizer

COMPANY IDENTIFICATION

Supplier/Distributor 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
Ethyl alcohol	64-17-5	1000 ppm	1000 ppm	180 ppm Odor - detectable	60 – 65
SECTION 3	HAZARDS IDENTIFICATION				

****EMERGENCY OVERVIEW****

OSHA FLAMMABLE LIQUID Harmful if swallowed.

May cause temporary irritation to eyes and/or respiratory tract if contact is frequent or prolonged.

PRIMARY ROUTES OF EXPOSURE Eyes, Inhalation, Ingestion

TARGET ORGANS Eyes, Respiratory System

POTENTIAL HEALTH EFFECTS

Acute Effects

Inhalation May cause mild, temporary irritation to respiratory tract upon prolonged, repeated exposures.

Eye May cause irritation upon prolonged, repeated exposures.

Skin Not considered a skin irritant. **Ingestion** May be harmful if swallowed.



Product Name MSDS Date DCT Hand Sanitizer June 14, 2011

Revision No. 06

Page 2 of 8

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: None Known

Carcinogenicity None IARC: N/AP NTP: N/AP OSHA: N/AP Medical Conditions Aggravated by Long-Term Exposure None Known

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 65 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 OSHA/DOT Flammable Liquid. Contaminated water runoff may cause environmental damage. Dike and collect water used to fight fire. May form floating hazard. Vapors may travel long distances before igniting. **Fire Fighting Instructions** Firefighters should wear self-contained breathing apparatus (SCBA). 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.



Product Name MSDS Date DCT Hand Sanitizer June 14, 2011

Revision No. 06

Page 3 of 8

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; partially oxidized organic compounds and other unidentified organic and inorganic compounds.

SECTION 6

ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES with all applicable regulations.

In the event of a spill or accidental release, notify relevant authorities in accordance National Response Center [(800) 424-8802 – 24 HR Reporting]

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.

SECTION 7

HANDLING AND STORAGE

HANDLING

OSHA/DOT Flammable liquid.

Avoid contact with eyes.

Avoid breathing mist or vapor in poorly ventilated areas – use only in a well-ventilated area.

Unvented containers may develop pressure – use with caution.

Eyewash stations should be easily accessible.

Loading/Unloading Temperature[Ambient]Transport Temperature[Ambient]Transport Pressure[Ambient]Static Accumulatoryes

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.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

The level of ventilation necessary will vary depending upon potential exposure conditions. Control measures to consider:



Product Name MSDS Date DCT Hand Sanitizer June 14, 2011

Revision No. 06

Page 4 of 8

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION continued

Ventilation

Adequate ventilation should be provided so that exposure limits are not exceeded (see Section 2 for exposure limits General mechanical ventilation acceptable.

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: **None required with normal use**.

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: **None required with normal use**

Eye Protection

None required with normal use

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: **None required with normal use**

Other Protective Equipment Suitable emergency eyewash facilities

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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Water white Physical State Gel
Odor alcohol
pH 7.0
Vapor Pressure N/AV



Product Name

DCT Hand Sanitizer

MSDS Date

June 14, 2011

Revision No. 06

Page 5 of 8

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES	continued
Vapor Density	N/AV	
Boiling Point	N/AV	
Melting Point	N/AV	
Specific Gravity (water = 1)	0.89	
Evaporation Rate (water = 1)	N/AV	
Volatile Organic Compounds (%	6) 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 Extreme temperatures

Reactivity / Incompatibility None known

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; oxidized organic compounds; 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

Ingredient Toxicological Data

LD50 (Oral) N/AV
LC50 (Inhalation) N/AV
Dermal Toxicity Data (Skin) N/AV
Skin and Eye Irritation Data N/AV



Product Name MSDS Date DCT Hand Sanitizer
June 14, 2011

Revision No. 06

Page 6 of 8

SECTION 11 TOXICOLOGICAL INFORMATION continued

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

Full strength product is RCRA-hazardous (D001). 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

Small Quantities: Contain spill. Any spillage should be cleaned up immediately. Where possible, flush area with plenty of water to drain; otherwise, use inert, non-combustible absorbent and sweep up. Large Quantities: (i.e. 50 gallons or more): RCRA-hazardous (D001 – Ignitable Characteristic). Wastewater treatment preferred method of disposal. Dispose of contaminated water in a contained waste treatment system. Do not allow to enter sewers or waterways untreated. 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 Flammable Liquid, n.o.s. (contains 62% ethanol), 3, UN 1993, PG II

DOT Hazard Class

DOT Subsidiary Risk

N/AP

DOT ID Number

UN 1993

DOT Packaging Group

PG II

SEA (IMDG)

IMDG Proper Shipping Name Flammable Liquid, n.o.s. (contains 62% ethanol), 3, UN 1993, PG II

IMDG Hazard Class 3
IMDG Subsidiary Risk N/AP



Product Name MSDS Date **DCT Hand Sanitizer**

ISDS Date June 14, 2011

Revision No. 06

Page 7 of 8

SECTION 14 TRANSPORT INFORMATION

continued

IMDG ID Number UN 1993
IMDG Packaging Group PG II

AIR (IATA)

IATA Proper Shipping Name Flammable Liquid, n.o.s. (contains 62% ethanol), 3, NA 1993, PG III

IATA Hazard Class

IATA Subsidiary Risk

IATA ID Number

UN 1993

IATA Packaging Group

Additional Information

DOT Shipping Description if quantities are equal to or less than 1.0 L (0.3 gallons): Consumer Commodity, ORM-D

SECTION 15

REGULATORY INFORMATION

U.S. Federal Regulations

SARA Title III Section 311/312 Categorization (40 CFR 370)

Acute - Immediate Hazard; Fire

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 WARNING

WHMIS CLASSIFICATION D2B (Stylized T) and B (Flammable 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/NDSL) Yes



Product Name MSDS Date

DCT Hand Sanitizer

June 14, 2011 Page 8 of 8

Revision No. 06

0

SECTION 15	REGULATORY INFORMATION

continued

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

N/D = Not Determined

N/A = Not Applicable

N/AV = Not Available

NFPA RATING

Health (Blue): 1 Flammability (Red): 3

Specific Hazard(s) (White): none

Reactivity (Yellow):

HMIS RATING

Health (Blue): 1

Flammability (Red): 3

Reactivity (Yellow): 0

Personal Protective Equipment: N/AP

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

Revision Changes

Updated REV Date/Level Only for WHMIS requirements; no other changes

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