

# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: Diversity Technologies Corp. DATE: March 13, 2016  
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PRODUCT NAME: Chem Clean Green

PRODUCT USE: Cleaner/Degreaser

CHEMICAL FAMILY: Surfactant blend CAS#: Mixture

## WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2B  
WORKPLACE HAZARD: Skin and eye irritant

## TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not applicable  
TDG CLASSIFICATION: Not applicable  
UN NUMBER (PIN): Not applicable  
PACKING GROUP: Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>CAS NUMBER</u>	<u>LD<sub>50</sub>Oral-Rat</u>	<u>LC<sub>50</sub>Inhal-Rat</u>	<u>ACGIH-TLV</u>
EDTA, tetrasodium	5-10	64-02-8	3030 mg/kg	Not available	Not established
Glycol ether DB	5-10	5131-66-8	>2000 mg/kg	Not available	Not established
Secondary alcohol ethoxylate	5-10	84133-50-6	>412 mg/kg	1.06 mg/L/4hr	Not established
NaDDBSA	5-10	25155-30-0	438 mg/kg	Not available	Not established
Nitilotriacetate, Trisodium salt (NTA)	0.0-0.1	5064-31-3	Not available	>5.0 mg/4hr	Not established

## SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [ X ] EYE CONTACT [ X ] SKIN [ X ] INHALATION [ X ] INGESTION  
EYE CONTACT: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.  
SKIN CONTACT: May cause moderate irritation on contact. Prolonged or repeated contact with this product tends to remove skin oils possibly leading to irritation and dermatitis.

INGESTION:	Large amounts may lead to abdominal pain and vomiting. Ulceration is possible. Contains an ingredient that may be harmful if swallowed. The calculated LD50 of this product is 2740 mg/kg.
INHALATION:	Inhalation of vapours or mists may irritate the upper respiratory tract and result in headache or dizziness. May cause lung damage. Aspiration into the lungs may occur during ingestion or vomiting resulting in lung injury.
CARCINOGENICTY:	Nitritotriacetate, trisodium salt is classified as a possible carcinogen, 2B, by the IARC. Although large dietary doses of NTA have caused urinary tumors in laboratory animals, there is little likelihood that NTA could cause cancer in human, especially at sub toxic doses.
TERATOGENICITY:	No information available
REPRODUCTIVE TOXICITY:	No information available
MUTAGENICTY:	No information available
SYNERGISTIC PRODUCTS:	No information available

#### SECTION IV: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and wash contacted area thoroughly with soap and running water. If irritation persists, obtain medical attention.
EYE CONTACT:	Immediately flush eyes with gently flowing warm water for 30 minutes, or until irritation ceases. Obtain medical attention when flushing period is completed.
INGESTION:	Do not induce vomiting. If vomiting occurs, keep head below hips to prevent vomitus being aspirated into lungs. Obtain immediate medical attention.
INHALATION:	Remove to fresh air. Apply oxygen or artificial respiration if required. Obtain medical attention.

#### SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Clear amber liquid, mild detergent odour
SPECIFIC GRAVITY:	0.95 – 1.15
BOILING POINT (°C):	Not available
MELTING POINT (°C):	Not available
SOLUBILITY IN WATER:	Miscible <b>pH: 11-12</b>
PERCENT VOLATILE BY VOLUME:	Not available
EVAPORATION RATE:	Not available
VAPOUR PRESSURE (mmHg):	Not available
VAPOUR DENSITY (air = 1):	Not available
BULK DENSITY:	Not applicable

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not available
FLAMMABLE LIMITS:	Not available
EXTINGUISHING MEDIA:	Water spray, foam, dry chemical, carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contaminated breathing apparatus required for firefighting personnel. Remove containers from fire area, or cool with water spray, if possible.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known

## SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [ X ]	UNSTABLE [ ]
INCOMPATIBILITY (CONDITIONS TO AVOID):	Strong oxidizers. Avoid contact with aluminum, copper, copper alloys.	
CONDITIONS OF REACTIVITY:	Not available	
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon, nitrogen, water vapour.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [ X ]	MAY OCCUR [ ]

## SECTION VIII: PREVENTATIVE MEASURES

## SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	In absence of proper ventilation recommend approval organic vapour-type respirator. For high vapour concentration SCBA may be required.
VENTILATION:	Not required unless product is heated or misted in an enclosed area.
PROTECTIVE GLOVES:	Viton gloves recommended
EYE PROTECTION:	Recommend chemical goggles and/or face shield be worn when handling. Do not wear contact lenses when handling this material.
OTHER PROTECTIVE EQUIPMENT (Specify):	Suggest rubber apron. Ensure eye wash station and safety shower available.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING** Minimize breathing vapour or mist. Wear suitable protective clothing to prevent contact. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and discard or thoroughly clean before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work period. Keep container closed when not in use. Store in cool and dry location away from incompatible and ignition sources. Empty package contain residual hazardous material; handle and store as if full.

**STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED**  
Eliminate sources of ignition. Use suitable safety equipment including respiratory protection equipment. Stop leak if possible to do so without risk. Small spills: Soak up with absorbent material; collect contaminated absorbent in containers for disposal; flush spill area with water. Large spills: Dike to prevent spread of material; collect uncontaminated material for repackaging; collect contaminate material in approved container for disposal; treat remaining material as a small spill.

#### **WASTE DISPOSAL METHOD**

Dispose in accordance with local, provincial and federal regulations. It is the responsibility of the end user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers that have not been rinsed and purged, contain residual hazardous material and must be disposed of or recycled in accordance with local regulations.

#### **SECTION IX: PREPARATION**

**THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH,  
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.**

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