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## SECTION 1

#### PRODUCT AND COMPANY IDENTIFICATION

### **PRODUCT**

**Product Name** 

Chelaclean 161-BS

**Product ID Number** 

100730

**Product Description** 

High Alkaline Cleaner for Steel

#### **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
TS 1074 - Trade Secret	5		5 mg/m3 respirable		1-5
Sodium gluconate	527-07-1			*	1-5
TS 1075 – Trade Secret					1-5
Potassium hydroxide 45%	1310-58-3	2 mg/m3	2 mg/m3		40 - 50
TS 1020 - Trade Secret					1-5
TS 1055 Trade Secret	•				1 – 5
TS 1000 – Trade Secret					1-5
SECTION 3	HAZARDS IDENTIFICATION				

# \*\*\*\*EMERGENCY OVERVIEW\*\*\*\*

CORROSIVE LIQUID

Harmful if swallowed.

Will cause chemical burns upon direct contact to eyes, skin and/or respiratory tract.

Can be irritating to eyes, skin and/or respiratory tract if contact is frequent or prolonged.

PRIMARY ROUTES OF EXPOSURE

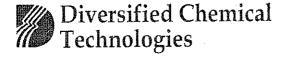
Eyes, Skin, Inhalation, Ingestion

TARGET ORGANS

Eyes, Skin, Respiratory System

POTENTIAL HEALTH EFFECTS

**Acute Effects** 



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## SECTION 5 FIRE FIGHTING MEASURES

continued

# 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.

Hazardous Combustion Products Irritating fumes, toxic gases and acrid smoke. Combustion can produce a variety of compounds including oxides of carbon; oxides of potassium; 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: 24-HR Reporting (800) 424-8802

**GENERAL** Highly corrosive. 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 polyethylene, or equivalent, containers for later disposal.

#### SECTION 7

#### HANDLING AND STORAGE

#### HANDLING

Highly Corrosive liquid.

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 to area where product is used.

Loading/Unloading Temperature

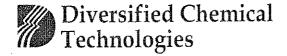
[Ambient]

**Transport Temperature** 

[Ambient]

**Transport Pressure** 

(Ambient)



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SECTION 8

# **EXPOSURE CONTROLS / PERSONAL PROTECTION**

repeated contact is likely, chemical-resistant clothing (including chemical-resistant boots) is recommended.

Other Protective Equipment

Emergency eyewash/safety shower in area

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 Clear, light amber

Appearance Clear,
Physical State Liquid
Odor mild

pH 13.8 – 14.0

 Vapor Pressure
 N/AV

 Vapor Density
 N/AV

 Boiling Point
 N/AV

 Melting Point
 N/AV

 Specific Gravity (water = 1)
 1.29 - 1.31

Evaporation Rate (water = 1)

Volatile Organic Compounds (%)

N/AV

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; reactive metals (ie. aluminum, tin, zinc and their alloys)

Reactivity / Incompatibility

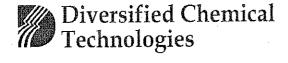
Strong oxidizing agents, strong acids

## **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; oxides of potassium; water vapor; oxidized organic compounds; and other unidentified organic and inorganic

**Hazardous Polymerization** 

Will not occur.



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#### SECTION 12

#### **ECOLOGICAL INFORMATION**

continued

26468 -86-0 octaethyleneiglycol octy/

on data

the introduction of the notified chemical is predicted to be low. (Lubrizol International Inc., Publication Summary Report Z-34, Reference No.: PLC/244, 2001) Poly(oxy-1,2-ethanediyl),a-(2-ethylhexyl)-w-hydroxy-: Acute Toxicity to Fish: Trout: LC50 (96HR), 13 mg/l; Acute Toxicity to Aquatic Invertebrates: Daphnia EC50 (48 HR), 6.5 mg/l; Acute Toxicity to Algae: EC50 (72

aquatic environment. (Schibley Chemical, 2009); The high water solubility and high molecular weight of the notified polymer indicate little potential for bioaccumulation. Overall, the environmental risk presented by

HR) 6.6 mg/l; Biodegradability and Ecotoxicity Remarks: >60% CO2, 28 days, CO2 Evolution Test (OECD 301B); Biodegaradable/OECD: Readily biodegradable; Products of Degradation: CO, CO2, and water.

D-Glucopyranoside, hexyl: (Fish, Trout): LC50 (96 HR) 420 mg/l; Daphnia (daphnia magna): EC50 (48 HR) 490 mg/i; Algae: EC50 (72 HR) 180 mg/i; Bacteria: EC50 (4 HR) >1000 mg/i. Biodegradability: Closed Bottle Test: >70% at day 28; > 60% at day 28; Toxicity of the products of Biodegradation: Not toxic. (Akzo Nobel Surface Chemistry, MSDS No. 15-01247, 2/5/2001)

Amino-tri(methylenephosphonic acid): Oncorhynchus mykiss (Rainbow Trout) (NOEC) - No Effect Concentration, (96 HR) 330 mg/l; Daphnia magna: EC50 (48 HR) 297 mg/l; Daphnia magna: NOEC – No Effect Concentration ((48 HR) 125 mg/l; Algae: EC50 (96 HR) 19.6 mg/l; Algae: NOEC - No Effect Concentration (96 HR) 7.4 mg/l. (Rhodia, Inc., MSDS No. 43842, 07/10/01)

Sodium mixed C8 amphocarboxylate: Daphnia magna: ECS0 (48 HR) >100 mg/l; Chemical Fate Information: Not readily biodegradable (OECD 301E). (Rhodia, Inc., MSDS No. 2182, 02/04/08)

NOTE: USEPA currently lists aquatic toxicity as "practically non-toxic" in concentrations greater than 100 ppm (EPA: Ecological Risk Assessment).

#### SECTION 13

# **DISPOSAL CONSIDERATIONS**

## **EPA Waste ID Number**

Full strength product is RCRA-hazardous (Corrositivity Characteristic: D002); however, 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

Neutralization with wastewater treatment is preferred method 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 in normal trash.

## SECTION 14

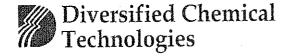
## TRANSPORT INFORMATION

#### LAND (DOT)

**DOT Proper Shipping Name** 

Corrosive liquid, basic, inorganic, n.o.s. (contains 20% potassium hydroxide and other proprietary alkaline ingredients), 8, UN 3266, PG II, RQ = 1000-lb

**DOT Hazard Class** 



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**SECTION 15** 

REGULATORY INFORMATION

continued

WHMIS CLASSIFICATION

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** CEPA (DSL/NDSL)

**AICS** 

**IECSC** 

**EINECS ENCS** 

KECI PICCS. Yes Yes

N /AV

N /AV N /AV

N/AV N /AV 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): 3

Flammability (Red): 0

Reactivity (Yellow):

Specific Hazard(s) (White): COR/ALK

**HMIS RATING** 

Health (Blue): 3

Flammability (Red): 0

Reactivity (Yellow): 0

Personal Protective Equipment: C or D

# THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS

**Revision Changes** 

N/AP - New Formula

Each user should read and understand this information and incorporate it in individual USER RESPONSIBILITY site safety programs in accordance with applicable hazard communication standards and regulations.

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