

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** CleanSafe 50E PLUS Aqueous Cleaner

**Other means of identification**

**Product Code** AC\_50\_EP

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Technical cleaning agent.

**Uses advised against** FOR INDUSTRIAL USE ONLY

**Details of the supplier of the safety data sheet**

**Manufacturer Address** Vantage Specialties, Inc.  
3938 Porett Drive  
Gurnee, IL 60031 USA  
847-244-3410

**Emergency Telephone Number**

**Emergency Telephone Number** CHEMTREC International +1-703-527-3887  
CHEMTREC USA: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

**Label Elements**

### EMERGENCY OVERVIEW

**DANGER**

**Hazard statements**

Causes serious eye damage

Causes skin irritation

May cause an allergic skin reaction



**Color** Yellow

**Physical State** Liquid

**Odor** Mild

**Precautionary Statements - Prevention**

Wear protective gloves/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

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

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation occurs: Get medical advice/attention

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

#### Precautionary Statements - Disposal

Dispose of contents/container in accordance with applicable regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Coconut diethanolamide	68603-42-9	1 - 5
Citric acid	77-92-9	1 - 5
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro-	27136-73-8	< 2
Diethanolamine	111-42-2	<1

### 4. FIRST AID MEASURES

#### FIRST AID MEASURES

<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water, If skin irritation occurs: Get medical attention.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Irritation or pain in contact with skin or eyes.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b><u>Suitable extinguishing media</u></b>	Use extinguishing measures appropriate to local circumstances and surrounding materials.
<b>Unsuitable extinguishing media</b>	None identified.
<b><u>Specific hazards arising from the chemical</u></b>	None identified.
<b><u>Explosion Data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b><u>Protective equipment and precautions for firefighters</u></b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment. Avoid contact with skin, eyes, and clothing.

**Environmental precautions**

**Environmental precautions** Prevent release to surface water.

**Methods and material for containment and cleaning up**

**Methods for Containment** Dike to collect large liquid spills.

**Methods for Cleaning Up** Absorb with inert material and transfer to containers for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Wear personal protective equipment.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethanolamine 111-42-2	TWA: 1 mg/m <sup>3</sup>	n/a	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Safety Shower  
Eyewash station  
Ventilation system.

**Individual protection measures, such as personal protective equipment**

**Eye/face Protection** Safety glasses with side-shields. Face-shield.

**Skin and Body Protection** Protective gloves. Long sleeved clothing.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear	<b>Odor threshold</b>	Not determined
<b>Color</b>	Yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	5 - 6	10% aqueous
<b>Melting point/freezing point</b>		Not determined
<b>Boiling point/boiling range</b>	100 °C	
<b>Flash Point</b>	> 100 °C	Cleveland Open Cup
<b>Evaporation Rate</b>		Not determined
<b>Flammability (solid, gas)</b>		Not flammable

<b>Flammability Limits in Air</b>		Not determined
Upper flammability limits		
Lower Flammability Limit		
<b>Vapor pressure</b>		Not determined
<b>Vapor Density</b>	> 1	(air = 1)
<b>Specific Gravity</b>	1.01	@ 25°C
<b>Water Solubility</b>	Soluble	
<b>Solubility in other solvents</b>		Not determined
<b>Partition coefficient</b>		Not determined
<b>Autoignition Temperature</b>		Not determined
<b>Decomposition temperature</b>		Not determined
<b>Kinematic viscosity</b>	2 cps	
<b>Dynamic viscosity</b>		Not determined
<b>Explosive Properties</b>	None	
<b>Oxidizing Properties</b>	None	

**Other Information****10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Not reactive
Remarks	
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	
Hazardous Reactions	None under normal processing.
Hazardous Polymerization	None under normal processing.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	None identified.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	Causes serious eye irritation. May cause burns.
<b>Skin contact</b>	Irritating to skin. May cause sensitization by skin contact.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, and vomiting.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Coconut diethanolamide 68603-42-9	1,240 mg/kg (Rat)	-	-
Citric acid 77-92-9	3000 mg/kg ( Rat )	-	-
1H-Imidazole-1-ethanol, 2-(heptadecenyl)-4,5-dihydro- 27136-73-8	710 mg/kg (rat)	-	-
Diethanolamine 111-42-2	1,600 mg/kg ( Rat )	= 7640 µL/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Redness and pain.  
**Serious eye damage/eye irritation** pain, tearing.  
**Sensitization** May cause sensitization of susceptible persons.  
**Mutagenic Effects** No known hazard.

Chemical Name	ACGIH	IARC	NTP	OSHA
Diethanolamine 111-42-2		Group 2B		

*IARC (International Agency for Research on Cancer)  
 Group 2B - Possibly Carcinogenic to Humans*

**Reproductive Toxicity** No known hazard.

**Aspiration hazard** No known hazard.

**Numerical measures of toxicity-Product Information****12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Coconut diethanolamide 68603-42-9		LC50= 3.6 mg/L Brachydanio rerio 96 h	EC50 = 6000 mg/L 16 h	EC50 = 5.4 mg/L 24 h
Citric acid 77-92-9		LC50= 1516 mg/L Lepomis macrochirus 96 h	EC50 = 14 mg/L 15 min	EC50 = 120 mg/L 72 h
Diethanolamine 111-42-2	EC50 = 7.8 mg/L 72 h EC50 2.1 - 2.3 mg/L 96 h	LC50 4460 - 4980 mg/L Pimephales promelas 96 h LC50 1200 - 1580 mg/L Pimephales promelas 96 h LC50 600 - 1000 mg/L Lepomis macrochirus 96 h	EC50 = 73 mg/L 5 min EC50 > 16 mg/L 16 h	EC50 = 55 mg/L 48 h

**Persistence and degradability**

No data available.

**Bioaccumulation/Accumulation**

No data available

Chemical Name	Partition coefficient
Citric acid 77-92-9	-1.72 20 °C
Diethanolamine 111-42-2	= -2.18 25 °C

**Other Adverse Effects** May be harmful if a significant amount is released to surface water.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste Disposal Method** Dispose of in accordance with applicable regulations.

**Contaminated Packaging** Dispose of in accordance with applicable regulations.

## 14. TRANSPORT INFORMATION

<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG / IMO</b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>IECSC</b>	Complies

### Legend

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*IECSC - China Inventory of Existing Chemical Substances*

### U.S. Federal Regulations

#### **SARA 313**

This product contains chemicals that may be present at levels which make it subject to reporting under SARA section 313:

Chemical Name	CAS-No.	Weight %	SARA 313 - Threshold Values %
Diethanolamine - 111-42-2	111-42-2	<1	1.0

#### **SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Diethanolamine 111-42-2	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

### U.S. State Regulations

Chemical Name	California Prop. 65

Coconut diethanolamide - 68603-42-9	Carcinogen
Diethanolamine - 111-42-2	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethanolamine 111-42-2	X	X	X

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards n/a
<b>HMIS</b>	Health Hazard 1	Flammability 1	Physical hazards 0	Personal Precautions B

Prepared by Product Steward  
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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of MSDS**

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