

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

Eye contact	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.
Skin contact	IF ON SKIN: Wash with plenty of water, If skin irritation occurs: Get medical attention.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	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

<u>Suitable extinguishing media</u>	Use extinguishing measures appropriate to local circumstances and surrounding materials.
Unsuitable extinguishing media	None identified.
<u>Specific hazards arising from the chemical</u>	None identified.
<u>Explosion Data</u>	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
<u>Protective equipment and precautions for firefighters</u>	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 ³	n/a	TWA: 3 ppm TWA: 15 mg/m ³

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

Physical State	Liquid	Odor	Mild
Appearance	Clear	Odor threshold	Not determined
Color	Yellow		

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

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

Other Information**10. STABILITY AND REACTIVITY**

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

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

Inhalation	There is no data available for this product.
Eye contact	Causes serious eye irritation. May cause burns.
Skin contact	Irritating to skin. May cause sensitization by skin contact.
Ingestion	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

DOT Not regulated
TDG Not regulated
MEX Not regulated

IATA Not regulated
IMDG / IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies
IECSC 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

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard 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

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

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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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