

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:	1-800-654-6911 (OUTSIDE USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:	1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)
FOR ALL MSDS QUESTIONS & REQUESTS, CALL:	1-800-511-MSDS (OUTSIDE USA: 1-423-780-2347)

PRODUCT NAME: LEISURE TIME CITRABRIGHT**1. PRODUCT AND COMPANY IDENTIFICATION**

Supplier
Leisure Time
1400 Bluegrass Lakes Parkway ,
Alpharetta, GA, 30004
United States

Telephone: +17705215999
Telefax: +17705215959
Web: www.poospacare.com

REVISION DATE: 10/20/2011
SUPERCEDES: 04/21/2011

MSDS Number: 000000012554
SYNONYMS:
CHEMICAL FAMILY: None
DESCRIPTION / USE: None established
FORMULA: None established

Manufacturer
Advantis Technologies
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004
United States of America

2. HAZARDS IDENTIFICATION

OSHA Hazard
Classification:

Moderate eye irritant, Mild skin irritant, Possible skin sensitizer

Routes of Entry: Inhalation, skin, eyes, ingestion
Chemical Interactions: None known.
Medical Conditions Aggravated: Skin disorders

Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

Hazardous Materials Identification System / National Fire Protection Association Classifications

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	2	0	0	
NFPA	1	0	0	

Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to be an inhalation hazard at ambient conditions. Inhalation of mist or vapor may cause irritation to the mucous membranes of the respiratory tract. Not expected to be toxic by inhalation.

Skin Toxicity: May cause mild skin irritation. Not expected to be toxic from dermal contact.

Eye Toxicity: Causes eye irritation.

Ingestion Toxicity: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Not expected to be toxic by ingestion.

Acute Target Organ Toxicity: May cause mild skin irritation and moderate eye irritation. Inhalation of mist/vapors may cause mucous membrane irritation (includes upper respiratory tract). Ingestion may cause gastrointestinal discomfort.

Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Inhalation: There are no known or reported effects from chronic exposure.

Skin Contact: Prolonged or repeated dermal contact may cause defatting of the skin and/or dermatitis.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.

Sensitization: May cause allergic skin sensitization in some individuals.

Chronic Target Organ Toxicity: There are no known or reported target organ effects from chronic exposure.

Supplemental Health Hazard Information : No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Butoxyethanol	111-76-2	
Citrus, ext.	94266-47-4	
Cocamide DEA	61791-31-9	
amine soap	PROPRIETARY	
Diethanolamine	111-42-2	

4. FIRST AID MEASURES

Inhalation:	IF INHALED: Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	IF ON SKIN: Flush skin with water for 15 minutes. Take off all contaminated clothing. Seek medical attention if irritation develops.
Eye Contact:	IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention immediately.
Ingestion:	IF SWALLOWED: Immediately drink water to dilute. Seek medical attention if symptoms develop. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): Combustible.

Flammable Properties

Flash Point: 50.00 °C

Fire / Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back.
Extinguishing Media:	Carbon dioxide (CO ₂) Foam Dry chemical
Fire Fighting Instructions:	Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products:	During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations:	Use the personal protective equipment recommended in Section 8 and a NIOSH approved self-contained breathing apparatus.
<u>Spill Mitigation Procedures</u>	
Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Vapors may be suppressed by the use of water fog.
Water Release:	Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.
Land Release:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). After removal, flush contaminated area thoroughly with water. Avoid runoff into storm sewers and ditches which lead to waterways.
Additional Spill Information :	Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas. Remove all sources of ignition.

7. HANDLING AND STORAGE

Handling:	Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapors, mist or gas.
Storage:	Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.
Incompatible Materials for Storage:	Refer to Section 10, "Incompatible Materials."

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to keep airborne exposures below the TLV, PEL or other recommended exposure limit.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved half-face air purifying respirator with organic vapor cartridge. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

Skin Protection : Impervious gloves

Eye Protection: Chemical resistant goggles must be worn.

Protective Clothing Type: impervious clothing

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
Butoxyethanol	111-76-2	ACGIH	20 ppm TWA
Butoxyethanol	111-76-2	OSHA Z1	50 ppm TWA 240 mg/m3 TWA
Butoxyethanol	111-76-2	NIOSH-IDLH	700 ppm
Diethanolamine	111-42-2	ACGIH	1 mg/m3 TWA Inhalable fraction and vapor

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Form: No data.

Color: No data.

Odor: No data.

Molecular Weight: None established

Specific Gravity : 0.984

20 °C

pH : 9.7 - 9.9

Boiling Point:	no data available
Freezing Point:	not applicable
Melting Point:	not applicable
Density:	not applicable
Bulk Density:	no data available
Vapor Pressure:	no data available
Vapor Density:	no data available
Viscosity:	no data available
Solubility in Water:	no data available
Partition coefficient n-octanol/water:	Not applicable
Evaporation Rate:	no data available
Oxidizing:	None established
Volatiles, % by vol.:	no data available
VOC Content	no data available
HAP Content	Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions.
Conditions to Avoid:	Heat, flames and sparks., Avoid freezing.
Chemical Incompatibility:	Oxidizing agents, Acids
Hazardous Decomposition Products:	Carbon oxides, Smoke
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Butoxyethanol	LD50 = 1,590 mg/kg	Rat
Citrus, ext.	LD50 > 5,000 mg/kg	rabbit
Cocamide DEA amine soap	LD50 = 1,000 - 2,000 mg/kg	rat
Diethanolamine	LD50 = 680 mg/kg	rat

Component Animal Toxicology

Dermal LD50 value:

Butoxyethanol	LD50 = 580 mg/kg	Rabbit
Citrus, ext.	LD50 > 5,000 mg/kg	rabbit

Cocamide DEA	no data available
amine soap	no data available
Diethanolamine	LD50 > 8,300 mg/kg rabbit

Component Animal Toxicology

Inhalation LC50 value:

Butoxyethanol	LC50 4 h = 486 ppm rat male
Butoxyethanol	LC50 4 h = 450 ppm rat female
Citrus, ext.	no data available
Cocamide DEA	no data available
amine soap	no data available
Diethanolamine	no data available

Product Animal Toxicity

Oral LD50 value: LD50 Believed to be approximately 5,600 mg/kg rat

Dermal LD50 value: LD50 Believed to be > 5,000 mg/kg rabbit

Inhalation LC50 value: no data available

Skin Irritation: May cause mild skin irritation.
 Eye Irritation: Moderate eye irritant
 Skin Sensitization: May cause allergic skin sensitization in some individuals.

Acute Toxicity: May cause mild skin irritation and moderate eye irritation. Inhalation of mist/vapors may cause mucous membrane irritation (includes upper respiratory tract).
 Ingestion may cause gastrointestinal discomfort.

Subchronic / Chronic Toxicity: Exposure to large quantities may result in red blood cell hemolysis and possible kidney damage.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Butoxyethanol High dose levels of this chemical produced maternal toxicity, and embryoletality and fetal malformations.

Mutagenicity: Not known or reported to be mutagenic.
 Butoxyethanol This material has been shown to be non-mutagenic in the majority of a battery of assays. Not expected to be a mutagenic hazard.
 Diethanolamine Not known or reported to be mutagenic.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.
 Butoxyethanol This material has been classified by the U.S. EPA as a "Group C" carcinogen (Suggestive Human Carcinogen), based on equivocal and limited evidence in laboratory

Diethanolamine

animals. The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans. The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans.

12. ECOLOGICAL INFORMATION

Overview: Moderately toxic to fish and other aquatic organisms.

Ecological Toxicity Values - Product:

- LC50 Believed to be approximately 2.6 mg/l (calculated)

Ecological Toxicity Values for: **Butoxyethanol**

- | | |
|--|--------------------------------------|
| Lepomis macrochirus (Bluegill sunfish) | - static test 96 h LC50 = 1,490 mg/l |
| Brine shrimp | - static test 24 h LC50= 1,000 mg/l |
| Daphnia magna (Water flea) | - static test 48 h EC50> 1,000 mg/l |
| Crangon crangon (shrimp) | - 48 h LC50= 800 mg/l |

Ecological Toxicity Values for: **Cocamide DEA**

- | | |
|----------------------------|-------------------------|
| Fish | - 96 h LC50 = 0.28 mg/l |
| Daphnia magna (Water flea) | - 48 h EC50= 0.84 mg/l |

Ecological Toxicity Values for: **Diethanolamine**

- | | |
|--|------------------------------------|
| Lepomis macrochirus (Bluegill sunfish) | - (static). 96 h LC50 = 1,850 mg/l |
| Fathead minnow (Pimephales promelas), | - 96 h LC50 = 837 mg/l |
| Daphnia magna, | - 48 h LC50= 122 mg/l |

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary : If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : not applicable

14. TRANSPORT INFORMATION

Land (US DOT): NA1993 COMBUSTIBLE LIQUID, N.O.S. (D-LIMONENE) III
Water (IMDG): UN1993 FLAMMABLE LIQUID, N.O.S., (D-LIMONENE) 3 III Marine
Pollutant: No

Air (IATA): UN1993 FLAMMABLE LIQUID, N.O.S., (D-LIMONENE) 3 III
Emergency Response Guide Number: ERG # 128

Transportation Notes: Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Per 49 CFR 173.150 (f)(1) A flammable liquid with a flash point at or above 38 Degrees Celsius that does not meet the definition of any other hazard class, may be reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impracticable.

EMS: F-E, S-E

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health	Immediate (Acute) Health Hazard
Physical	None

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established
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Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	Diethanolamine Value: 100lbs GLYCOL ETHERS Value:
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ZUS_SAR302	Reportable quantity	None established
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Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313 De minimis concentration

Diethanolamine
Value: < 1% by weight
Glycol ethers (Non-carcinogenic)
Value: 1%**Clean Air Act Toxic ARP Section 112r:**

CAA 112R None established

Clean Air Act Socmi:

HON SOC

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

DIETHANOLAMINE (2,2'-IMINODIETHANOL)

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

ETHYLENE GLYCOL MONOBUTYL ETHER

Clean Air Act VOC Section 111:

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCMI Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

01 1996

2-BUTOXYETHANOL

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP

US. EPA Hazardous Organic NESHAP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)

04 1999

DIETHANOLAMINE (2,2'-IMINODIETHANOL)

US. EPA Hazardous Organic NESHAP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)

04 1999

GLYCOL ETHERS

State Right-to-Know Regulations Status of Ingredients
Pennsylvania:

CAS #	COMPONENT NAME
111-42-2	Diethanolamine
111-76-2	Butoxyethanol

ZUSPA_RTK

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL, 2,2'-IMINOBIS-
Environmental hazard

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL, 2-BUTOXY-

New Jersey:

CAS #	COMPONENT NAME
111-42-2	Diethanolamine
111-76-2	Butoxyethanol

ZUSNJ_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)
2007-03-01
DIETHANOLAMINE ETHANOL, 2,2'-IMINOBIS-
Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL)
2007-03-01
2-BUTOXY ETHANOL ETHYLENE GLYCOL MONOBUTYL ETHER ETHANOL, 2-
BUTOXY- BUTYL CELLOSOLVE
Special Health Hazard - Carcinogen

Massachusetts:

CAS #	COMPONENT NAME
111-42-2	Diethanolamine
111-76-2	Butoxyethanol

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications
1994-04-01
DIETHANOLAMINE

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

2-BUTOXYETHANOL BUTYL CELLOSOLVE ETHYLENE GLYCOL MONOBUTYL
ETHER

California Proposition 65:

CAS #	COMPONENT NAME
ZUSCA_P65	None established

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight percent

693

Diethanolamine

Ingredient Disclosure List (WHMIS)

2007-08-24

Threshold limits: 1 Weight percent

824

Ethylene glycol monobutyl ether

16. OTHER INFORMATION

MSDS REVISION STATUS :

SECTIONS REVISED: 14

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .

