



SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product Identifier: Citrus Brite

Other Means of Identification: Not applicable

Recommended Use: cleaner/ degreaser

Initial Supplier Identifier: Adell Packaging & Supplies Inc. 750 Millway Ave. Unit 1A, Concord, ON, L4K 3T7 905-738-8408

Emergency telephone number: 613-996-6666

Issuing Date: 15/08/17

SECTION 2 – HAZARDOUS IDENTIFICATION

Physical hazards:

Health hazards Acute toxicity, oral Category 4
Acute toxicity, dermal Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2
Sensitization, skin Category 1
Specific target organ toxicity, single exposure Category 3
Hazardous to the aquatic environment, acute Category 2 hazard

Environmental hazards:

Hazardous to the aquatic environment, Category 3 long-term hazard
OSHA defined hazards Not classified.

Label elements:



Signal word: Danger

Hazard statement:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement:

Avoid breathing mist or vapor. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear eye/face protection. Wear protective gloves/protective clothing. Wash thoroughly after handling. Avoid release to the environment.

Response if swallowed:

Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Disposal:

Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC):

There is no additional information.

**SECTION 3 – COMPOSITION/INFORMATION ON
INGREDIENTS**

Chemical Name	CAS No.	Concentration	Common name/ Synonyms	Other Identifiers
Ethylene glycol monobutyl ether	111-76-2	1-5%	butyl	
D'limonene	8028-48- 6	1-5%	Orange oil	
Potassium hydroxide	1310-58- 3	5-10%	KOH	

Notes:

SECTION 4 – FIRST-AID MEASURES

Inhalation:

In case of respiratory tract irritation, consult a physician immediately. Provide fresh air

Skin Contact:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Eye Contact:

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion:

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Consult a physician immediately.

Most Important Symptoms and Effects, Acute and Delayed: Overview

SKIN: Will cause severe burns to skin,

If not rinsed with water immediately

EYES: Avoid contact with eyes. If not removed promptly, will injure eye tissue which may result in permanent damage

INGESTION: May cause pain, irritation, and sores in mouth, esophagus, and stomach.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media Suitable: water, foam, alcohol resistant foam, ABC-powder

Extinguishing Media Specific Hazards Arising from the Product: Deposited combustible dust has considerable explosion potential. Explosive when mixed with combustible material.

Special Protective Equipment and Precautions for Fire-Fighters: Use personal protective equipment. In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water

courses. Collect contaminated water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

Remove persons to safety

Wear breathing apparatus if exposed to vapors.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Use appropriate containment to avoid environmental contamination.

Methods for Containment and Cleaning Up:

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).

Use only non-sparking equipment.

Dike large spills.

Clean residue from spill site.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling: Do not eat, drink or smoke when handling this product. Wear protective gloves/protective clothing and eye/face protection. Wash face, hands, and any exposed skin thoroughly after handling.

Conditions for Safe Storage: Store locked up. Store away from incompatible materials. Store in a well ventilated area. Keep container tightly closed.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Mg/m3	ppm	Non-Standard Units	Basis
D'limonene	8028-48-6	165.5 mg/m3	30ppm	-	TWA
2-butoxyethanol	111-76-2	-	35ppm	-	TWA
Potassium	1310-58-3	2mg/m3	-	-	TWA

hydroxide		PEAK			STEL
-----------	--	------	--	--	------

Individual Protection Measures: Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Eye/Face Protection: Wear eye/ face protection

Skin Protection: Wear protective gloves. Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ ointments) is recommended. Wash hands thoroughly after handling.

Respiratory Protection: None needed under normal use conditions with adequate ventilation.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Color: flourecent green

Odour: citrus odour

Odour Threshold: Not Determined

pH: 9.5

Melting Point and Freezing Point: N/D

Initial Boiling Point and Boiling Range: 100C

Flash Point: none

Evaporation Rate: Not available

Flammability (solid, gas): No

Upper and Lower Flammability or Explosive Limit: Not Available

Vapour Pressure: No data available

Vapour Density (air = 1): No data available

Relative Density (water = 1): No data available

Solubility in Water: Completely Soluble

Partition Coefficient, n-Octanol/Water (Log Kow): N/D

Auto-ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical Stability: Stable under normal circumstances.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use

Conditions to Avoid: There are no specific conditions known which have to be avoided.

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

 x Inhalation x Skin Contact x Eye Contact x Ingestion

Acute Toxicity:

Component	LD50 oral rat	LD50 Dermal	LC50
Glycol ether EB	3700mg/kg	>2000mg/kg	N/Av
KOH	100mg/kg	1350 mg/kg	N/Av
D'limonene	4400mg/kg	N/Av	N/Av

Skin Corrosion/Irritation: Causes severe burns and eye damage.

Serious Eye Damage/Irritation: Causes serious eye damage.

STOT (Specific Target Organ Toxicity) – Single Exposure: N/A

Aspiration Hazard: N/A

STOT (Specific Target Organ Toxicity) – Repeated Exposure: N/A

Respiratory and/or Skin Sensitization: May cause an allergic skin reaction.

Carcinogenicity: N/A

Reproductive Toxicity: N/A

Development of Offspring: N/A

Sexual Function and Fertility: N/A

Effects on or via Lactation: N/A

Germ Cell: N/A

Mutagenicity: N/A

Interactive Effects: N/A

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish:

Components	End point	Species	Value	Exposure time
Ethelene glcol monobutyl ether	LC50	Pimephales promelas (fathead minnow)	1474 mg/l	96h
D'limonene	LC50 Flow through	Pimephales Promelas	0.619 mg/l	96h

Toxicity to aquatic invertebrates

Components	End Point	Species	Value	Exposure time
Ethylene glycol Monobutyl ether	EC50	Daphnia magna (water flea)	1550 mg/l	48h

Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
------------	-----------	---------	-------	---------------

Ethylene glycol Monobutyl ether	ErC50	Algae	1840mg/l	72h
---------------------------------------	-------	-------	----------	-----

Persistence and degradability

Component	Biodegradation	Expose Time	Process
Ethylene glycol Monobutyl ether	18.3%	3d	Carbon dioxide generation
D'limonene	96%	28d	DOC removal

Bioaccumulative Potential

Components	Factor (BCF)	Octanol/water (log)
Ethylene glycol Monobutyl ether	-	0.81
D'limonene	-	5.6

Mobility in Soil: No data available.

Other Adverse Effects: None Known

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Considerations:

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Completely empty packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14 – TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Technical Name (for N.O.S. entry)	Transport Hazard Class(es)	Packing Group
------------	--------	----------------------	-----------------------------------	----------------------------	---------------

Corrosive liquids	1760	POTASSIUM HYRDOXIDE SOL'N		8	III

Special Precautions:

Land Transport:

CLASS 8 UN1760 P.G. III
CORROSIVE LIQUIDS N.O.S.
(POTASSIUM HYDROXIDE SOL'N)

Sea Transport:

CLASS 8 UN1760 P.G. III
CORROSIVE LIQUIDS N.O.S.
(POTASSIUM HYDROXIDE SOL'N)

SECTION 15 – REGULATORY INFORMATION

Safety, Health and Environmental Regulations:

Workplace classification:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The Occupational Safety and Health Administration's interpretation of the product's hazard to workers.

SARA Title 3:

Section 311/312 Categorizations (40 CFR 372): This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health physical hazards. Superfund Amendment and Reauthorization Act (SARA) category. SARA requires reporting any spill of any hazardous substance.

TSCA status: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the (M)SDS contains all of the information required by the CPR.

PROP 65 (CA): WARNING: This product may contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

SECTION 16 – OTHER INFORMATION

Date of Latest Revision: August 15, 2017

DISCLAIMER: Although the information contained in this document is offered in good faith, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS OR IMPLIED) OR ANY GUARANTEE OF ITS ACCURACY OR SUFFICIENCY and is taken at the user's sole risk. 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. User is solely responsible for determining the suitability of use in each particular situation. Adell Packaging & Supplies Inc. specifically DISCLAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including without limitation, any recommendation which user may construe and attempt to apply which may infringe or violate valid patents, licenses, and/or copyright.