

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Towelette, mixture
Product name : Refresher Towelette
Product group : Trade product
Product code : LB-3843/2
Part number : RT-7810

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Hand cleaning

1.2.2. Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Celeste Industries Corporation
8221 Teal Drive, suite 405
Easton, Maryland 21601 (USA)
Within USA: (410) 822-5775
International: 00 (1) 410-822-5775
e-mail: info@celestecorp.com

1.4. Emergency telephone number

Emergency contact number : For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300
Outside USA and Canada (collect call accepted): 1-703-527-3883

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified as hazardous

Adverse physicochemical, human health and environmental effects

Not classified as dangerous for use/supply

2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

No marking required

2.3. Other hazards

Not classified

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Ethanol	(CAS No.) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	15 - 23	F; R11
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	(CAS No.) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	15 - 23	Flam. Liq. 2, H225

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Unlikely route of exposure

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according to Regulation (EC) No. 453/2010

First-aid measures after skin contact	: Not known to cause irritation, but if skin irritation does occur, rinse well with water.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes.
First-aid measures after ingestion	: Seek medical attention immediately. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact	: Intended for hand use without causing irritation.
Symptoms/injuries after eye contact	: May cause irritation to the eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	: Water.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non-flammable liquid, according to Annex VI of Directive 67/548/EEC, mixture having a flash point greater than 21 °C and less than 55 °C need not be classified as flammable if the mixture could not in any way support combustion.
Reactivity	: Stable under normal conditions of use.

5.3. Advice for firefighters

Protective equipment for firefighters	: Wear proper protective equipment. Extra personal protection: complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Chemical resistant gloves as needed. Use splash goggles to prevent eye contact as needed.
Emergency procedures	: Avoid contact with eyes. No special emergency procedures.

6.1.2. For emergency responders

Protective equipment	: Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible.
Emergency procedures	: Eliminate leaks immediately. Clean spills promptly. Material spilled on hard surface can present a serious slipping/falling hazard.

6.2. Environmental precautions

No special requirements.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, dike with dirt, then remove by vacuum truck for disposal.
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6.4. Reference to other sections

Refer to sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide adequate ventilation.
Storage condition(s)	: Avoid freezing during storage.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)		
Austria	MAK (mg/m ³)	1900 mg/m ³
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m ³)	3800 mg/m ³
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m ³)	1907 mg/m ³
Belgium	Limit value (ppm)	1000 ppm

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Ethanol (64-17-5)		
France	VLE (mg/m ³)	9500 mg/m ³
France	VLE (ppm)	5000 ppm
France	VME (mg/m ³)	1900 mg/m ³
France	VME (ppm)	1000 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	960 mg/m ³
Germany	TRGS 900 Occupational exposure limit value (ppm)	500 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	1884 mg/m ³
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1000 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Spain	VLA-ED (mg/m ³)	1910 mg/m ³
Spain	VLA-ED (ppm)	1000 ppm
Switzerland	VLE (mg/m ³)	1920 mg/m ³
Switzerland	VLE (ppm)	1000 ppm
Switzerland	VME (mg/m ³)	960 mg/m ³
Switzerland	VME (ppm)	500 ppm
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1000 mg/m ³
Czech Republic	Expoziční limity (PEL) (ppm)	530 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	3000 mg/m ³
Czech Republic	Expoziční limity (NPK-P) (ppm)	1590 ppm
Denmark	Grænseværdie (langvarig) (mg/m ³)	1900 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Denmark	Grænseværdie (kortvarig) (mg/m ³)	3800 mg/m ³
Denmark	Grænseværdie (kortvarig) (ppm)	2000 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1900 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1000 ppm
Finland	HTP-arvo (15 min)	2500 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	1300 ppm
Hungary	AK-érték	1900 mg/m ³
Hungary	CK-érték	7600 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	1900 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Lithuania	IPRV (mg/m ³)	1000 mg/m ³
Lithuania	IPRV (ppm)	500 ppm
Lithuania	TPRV (mg/m ³)	1900 mg/m ³
Lithuania	TPRV (ppm)	1000 ppm
Lithuania	NRV (mg/m ³)	1900 mg/m ³
Lithuania	NRV (ppm)	1000 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	950 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	500 ppm
Poland	NDS (mg/m ³)	1900 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	960 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	Upozornenie (SK)	krátkodobý kategória II.
Canada (Quebec)	VEMP (mg/m ³)	1880 mg/m ³
Canada (Quebec)	VEMP (ppm)	1000 ppm
Australia	TWA (mg/m ³)	1920 mg/m ³
Australia	TWA (ppm)	1000 ppm

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8.2. Exposure controls

Appropriate engineering controls	: Ensure adequate ventilation.
Personal protective equipment	: Not required if used as intended.
Hand protection	: Not required.
Eye protection	: Normally not required.
Skin and body protection	: Normally not required.
Respiratory protection	: Normally not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Saturated towellete
Appearance	: Thin liquid
Colour	: Clear
Odour	: Pleasant scent
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: 32 F
Boiling point	: No data available
Flash point	: 36.1 °C
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 2.07
Relative density	: 0.95
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Ethanol (64-17-5) – LD50 oral rat	: 10470 mg/kg
Skin corrosion/irritation:	: Not classified

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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ethanol (64-17-5)	
LC50 fishes	> 14200 mg/l 96 hours
LC50 other aquatic organisms	5012 mg/l 48 hours- daphnia
EC50 Daphnia	454 mg/l
NOEC (acute)	9.6 mg/l Daphnia magna
ErC50 (algae)	275 mg/l
ErC50 (other aquatic plants)	4432 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Lime Refresher Towel Solution	
This substance/mixture does not meet the PBT criteria of REACH, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.	

12.6. Other adverse effects

Not applicable

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose of contents/container to comply with applicable local, national and international regulations.
Waste disposal recommendations	: Comply with local regulations for disposal.

SECTION 14: Transport information

Not classified as dangerous for transport.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH candidate substance

Other regulations, restrictions and prohibition regulations : Compliance with following regulations: Regulation (EC) 1907/2006 as amended. Regulation (EC) 1272/2008 as amended. Directive 1999/45/EC as amended. Directive 67/548/EEC as amended.

15.1.2. National regulations

No data available

15.2. Chemical safety assessment

CSA has not been established

SECTION 16: Other information

Sources of Key data : MSDS.

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Abbreviations and acronyms : ACGIH (American Conference of Government Industrial Hygienists). ASTM - American Society for Testing and Materials . CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EEC - European Economic Community. EC - European Community. GHS - Globally Harmonised System. HMIS - Hazardous Materials Identification System. MSDS - Material Safety Data Sheet. OSHA - Occupational Safety and Health Administration. Overland transport (ADR). PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Relat - Relative. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average.

Full text of R-, H- and EUH-phrases::

Flam. Liq. 2	flammable liquids Category 2
Flam. Liq. 3	flammable liquids Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
R11	Highly flammable

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Flam. Liq. 3 H226

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