

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

### 1.1. Product identifier

Product form : Wipe, mixture  
Product name. : Aerospace Lens Wipe  
Product group : Trade product  
Product code : LB-CLC/A  
Part number : TR-LC/A

### 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 : Surface 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	10 - 12	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	10 - 12	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.

## 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.

### 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 <sup>3</sup> )	1900 mg/m <sup>3</sup>
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	1907 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	1000 ppm

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

<b>Ethanol (64-17-5)</b>	
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

<b>Lime Refresher Towel Solution</b>	
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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