

Flight Deck Wipe

Safety Data Sheet

According to Regulations (EC) No. 453/2010

MS Code : MS97A

Revision : 5

Rev Date : 04/21/2015

Supersedes : 12/10/2013

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

1.1. Product identifier

Product form : Wipe, mixture
Product name : Flight Deck Wipe
Product group : Trade product
Product code : LB-CLC/A
Part number : TR-FDW series

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

Safety Data Sheet

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 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 |

Safety Data Sheet

according to Regulation (EC) No. 453/2010

| 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 |

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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 liiquid |
| 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 |

Safety Data Sheet

according to Regulation (EC) No. 453/2010

| | |
|--|------------------|
| 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.

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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

This information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Celeste Industries Corporation assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.