

MATERIAL SAFETY DATA SHEET

According to Regulation 2015/830

Fluid Science Professional Anti-Viral & Anti-Bacterial Surface Disinfectant

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Version 1
Issue Date: 24/03/2020

Section 1. IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND THE COMPANY/ UNDERTAKING

1.1. Product identifier: Fluid Science Professional Anti-Viral & Anti-Bacterial Surface Disinfectant

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

- i) Biological and odour control product concentrate
- ii) Tested in Fogging Systems and suitable for use as a Fogging liquid

1.3. Details of the supplier of the safety data sheet

Fluid Science Limited
Unit 5 Pride Point, Ashcroft Road
Knowsley Industrial Park
Liverpool
L33 7TW
United Kingdom

1.4. Emergency Contact Details

Telephone +44 (0) 1244 506 860 (9am-5.30pm GMT Monday to Friday) **Email:** mike.jones@fluidscienceltd.com

Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to 1272/2008/EC

Eye Dam.1 H319 Causes serious eye irritation

2.2. Label elements

Labelling according to 1272/2008/EC

Hazard Pictograms



GHS-05

Signal word: Danger

Hazard statements

H319 Causes serious eye irritation.

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Precautionary Statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P350 If skin irritation or rash occurs: Gently wash with plenty of soap and water.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Supplemental Hazard Statements

None

2.3. Other hazards None identified

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

L(+) Lactic Acid, Sulfuric Acid, Mono c12-14 alkyl esters, sodium salt, Cinnamal Aldehyde, Purified Water, Deionised Water

3.2. Mixtures

Hazardous components declared according to Regulation (EC No 1272/2008)

| | | | |
|---|--|--|-----|
| CAS: 85586-07-8 EINECS: 287-809-4 | Sulfuric acid, mono c12-14 alkyl esters, sodium salt | Eye Irrit. 2, H319 Skin Irrit. 2, H315 | <5% |
| CAS: 79-33-4 EINECS: 201-196-2 REACH: 01-2119474164-39-XXXX, Also a biocidal active substance registered under BPR | L(+) lactic acid | Eye Dam. 1, H318 Skin Irrit. 2, H315 | <5% |
| CAS:104-55-2 EINECS: 203-213-9 REACH: 01-2119935242-45-xxxx Also a biocidal active substance being supported under BPR | Cinnamal | Acute Tox. 4, H312 Skin Irrit. 2, H315 Skin Sens.1, H317 Eye Irrit. 2, H319 | <1% |

A full explanation of H-phrases appears in Section 16

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Rinse immediately with plenty of water for at least 5 minutes holding the eyelids open

Skin Contact Wash off immediately with soap and water. Remove contaminated clothing

Inhalation Move the exposed person to fresh air.

Ingestion Rinse mouth thoroughly.

Seek medical attention if any symptoms persist.

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

Causes serious eye irritation

May produce an allergic skin reaction

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

No special treatment required

Section 5. FIRE FIGHTING MEASURES

5.1. Extinguishing media Product is an aqueous liquid and is not flammable. Use extinguishing media appropriate to the surrounding fire conditions

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5.2. Special hazards arising from the substance or mixture

Product is an aqueous liquid so is not expected to burn or create special hazards

5.3. Advice for firefighters

Wear full protective clothing and suitable respiratory equipment when necessary

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear impervious chemical resistant gloves and approved safety glasses or goggles. Wear protective clothing such as overalls if spillage involves large amounts (>20 litres)

6.2. Environmental precautions

Do not allow large amounts (i.e. more than 20 litres) of product to enter drains undiluted. Do not allow spillages to enter an open water course or surface water. Prevent further spillage if safe

6.3. Methods and material for containment and cleaning up

Small spillages (<20 litres) can be washed to a drain (but not one that leads to an open water course or surface water) with at least a 10X dilution in water. For larger spillages, absorb with inert material and sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water

6.4. Reference to other sections

See sections 8 and 13 for additional information

Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool dry, well-ventilated area. Keep containers tightly closed. Store in correctly labelled containers

7.3. Specific end use(s)

No exposure scenario currently available

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

No exposure limits applicable to components in this product

8.2. Exposure controls

Engineering measures

No special requirements

Respiratory protection

Not required

Hand protection

Wear chemical resistance gloves (PVC, nitrile, neoprene or butyl)

Eye protection

Wear approved safety glasses or goggles

Protective equipment

Wear protective clothing such as overalls. Wash all contaminated clothing before re-use

Environmental measures

Do not allow product to enter open water courses or surface water

Additional Measures when using in fogging systems

Recommended protective clothing: Wear Gloves, Goggles and a builders type dust mask to avoid excessive inhalation

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Clear liquid |
| Odour | Slight, pleasant |
| Odour threshold | Not determined |
| pH | 3-4 |
| Melting point/freezing point | 0°C |
| Initial boiling point and boiling range | 100°C |
| Flash point | Not applicable, product is an aqueous liquid |
| Evaporation rate | Expected to be the same as water |
| Flammability (solid, gas) | Not applicable, product is an aqueous liquid |
| Upper/lower flammability or explosive limits | Not applicable, product is an aqueous liquid |
| Vapour pressure | Expected to be the same as water |
| Vapour density | Expected to be the same as water |
| Relative density | 1.0 |
| Solubilities | Completely miscible in water |
| Partition coefficient n-octanol/water | Not applicable, product is an aqueous liquid |
| Autoignition temperature | Not applicable, product is an aqueous liquid |
| Decomposition temperature | Not applicable, product is an aqueous liquid |
| Viscosity | Expected to be the same as water |
| Explosive properties | No ingredients with explosive properties |
| Oxidising properties | No ingredients with oxidising properties |
| 9.2. Other information | None available |

Section 10. STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1. Reactivity | No specific hazard |
| 10.2. Chemical stability | Stable under normal conditions |
| 10.3. Possibility of hazardous reactions | Product is an aqueous liquid and no hazardous reaction are expected |
| 10.4. Conditions to avoid | Not determined |
| 10.5. Incompatible materials | None known |
| 10.6. Hazardous decomposition products | None known |

Section 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) Acute toxicity

Estimated oral ATE for mixture is >25,000 mg/kg

b) **Skin corrosion/irritation:** Mixture not classified as corrosive to skin or causing skin irritation.

c) **Serious eye damage/irritation:** Mixture classified as causes eye serious damage.

d) **Respiratory or skin sensitisation:** Mixture not classified as causing sensitisation by skin contact, but it contains an ingredient classified as skin sensitising and carries the supplemental phrase EUH 208 may cause an allergic reaction. Does not contain ingredients classified as a respiratory sensitizer.

e) **Germ cell mutagenicity:** Does not contain ingredients that are known germ cell mutagens

f) **Carcinogenicity:** Does not contain ingredients that are known carcinogens

g) **Reproductive toxicity:** Does not contain ingredients that are known reproductive toxicants

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h) **STOT single exposure:** Does not contain ingredients that are known to cause single target organ toxicity with single exposure

i) **STOT repeated exposure:** Does not contain ingredients that are known to cause single target organ toxicity with repeated exposure

j) **Aspiration hazard:** Does not contain ingredients that are known to cause aspiration hazards

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Does not contain ingredients that are toxic to the aquatic environment and therefore no classification of the mixture is required for acute or chronic effects

12.2. Persistence and degradability

Given the classification and degradability information on the ingredients and their concentration in the mixture, product is expected to be biodegradable to at least 90%.

12.3. Bioaccumulative potential

Given the classification and environmental behaviour information on the ingredients and their concentration in the mixture, product is not expected to bioaccumulate

12.4. **Mobility in soil** Aqueous product, fully soluble in water: not expected to be retained in soil to any significant extent

12.5. Results of PBT and vPvB assessment

Not anticipated to be PBT or vPvB

12.6. **Other adverse effects** None known

Section 13. DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods** Small quantities of product (up to 20 litres on any one occasion) can be disposed of to drain (but not one that leads to an open water course or surface water) with a 10 times dilution with water.

Section 14. TRANSPORT INFORMATION

14.1. **UN number** Not regulated

14.2. **UN proper shipping name** Not regulated

14.3. **Transport hazard class(es)** Not regulated

14.4. **Packing group** Not regulated

14.5. **Environmental hazards** Not applicable

14.6. **Special precautions for user** None required

14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
Not applicable

Section 15. REGULATORY INFORMATION

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

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation EC 648/2004 on detergents. Data to support this statement are held at the disposal of the competent authorities of the Member States.

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Section 16. ADDITIONAL INFORMATION

| | |
|--|--|
| Revision | This SDS has been prepared according to Regulation 2015/830. |
| Explanation of H-phrases that appear in section 3 | H312 Harmful in contact with skin H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation |
| References | Part 3 of Annex VI of Regulation (EC) No 1272/2008 http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF Annex II Annex II of (EU) No 453/2010 http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:133:0001:0043:en:PDF European Chemicals Agency (ECHA) Guidance on the compilation of safety data sheets, Version 3.1, November 2015 https://echa.europa.eu/documents/10162/23036412/sds_en.pdf/01c29e232cbe-49c0-aca7-72f22e101e20 |
| Method used to classify: | Mixture has been classified by reference to information on ingredients |
| Further information | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process. |