MATERIAL SAFETY DATA SHEET

According to Regulation 2015/830

Fluid Science Professional Antiviral Fogging Solution

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

1.1. Product identifier: Fluid Science Professional Antiviral Fogging Solution

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.

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 irratation
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

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 sensitiser.

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

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 contains ingredients that are toxic to the aquatic environment and therefore no classification the of 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.

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.

FLUIDSCIENCE LTD
specialists in liquid solutions