

Safety Data Sheet

Fluid Science Antiviral Disinfectant Concentrate

According to Regulation 2015/830

Section 1. Identification of the substance / mixture and the company / undertaking

1.1. Product identifier Fluid Science Antiviral Disinfectant Concentrate

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

Surface cleaner and sanitizer for various applications

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 telephone number

Telephone + 44 (0) 1244 837 860 (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

Skin Irrit. 2 - H315

Eye Dam. 1 - H318

2.2. Label elements

Labelling according to 1272/2008/EC

Hazard Pictograms:



Signal words:

Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P264 Wash contaminated skin thoroughly after handling.

P332+313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

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Supplemental Hazard Statements

EUH 208 Contains cinnamal: may produce an allergic reaction

Detergent labelling

15-30% anionic surfactants, 15-30% L-lactic acid, cinnamal

2.3. Other hazards

None identified.

Section 3. Composition / Information on ingredients

3.1. Substances Not applicable, material is a mixture.

3.2. Mixtures Hazardous ingredients 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 Reference: ECHA C&L database, See section 16	>10%
CAS: 79-33-4 EINECS: 201-196-2 REACH Registration Number: 01-2119474164-39-XXXX Also a biocidal active substance registered under BPR	L(+) lactic acid	Eye Dam. 1 - H318 Skin Irrit. 2 - H315	>10%
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 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 damage
 Causes serious skin irritation
 May produce an allergic reaction

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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 approved safety glasses or goggles and impervious chemical resistant gloves. 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 (non-metallic) 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

Use polyethylene packaging, do not use unlined aluminium containers. 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.

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Section 8. Exposure controls / Personal Properties

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 undiluted

Section 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Pale straw to yellow coloured clear liquid
Odour	Slight
Odour threshold	Not determined
pH	1-2
Melting point/freezing point	Approx. 0°C
Initial boiling point and boiling range	Approx. 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	1.07
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

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Section 10. Stability and Reactivity

10.1. Reactivity	Product is acidic and will react with alkaline substances
10.2. Chemical stability	Stable under normal conditions
10.3. Possibility of hazardous reactions expected	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 dermal ATE for mixture is >100,000 mg/kg
None of the ingredients declared in Section 3.2 are classified for acute toxicity via other routes and no other ATEs are presented for the mixture.

b) Skin corrosion/irritation:

Mixture classified as Skin Irritation, Category 2, H315 Causes skin irritation.

c) Serious eye damage/irritation:

Mixture classified as Eye Damage, Category 1, H318 Causes serious eye 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.

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Section 12. Ecological Information

12.1. Toxicity

Although one of the ingredients has harmful to aquatic life with long term effects classification, the concentration is such that the product is not classified as toxic to the aquatic environment for either 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 95%.

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

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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 Revision 3, with issue date 19/05/2020 supersedes Revision 2 dated 24/03/2020. The update has been made as new information has become available on the appearance and the relative density of the mixture: see relevant entries in Section 9.1. The classification of one of the ingredients on Section 3.2, CAS 85586-07-8 has been brought into line with the ECHA Classification and Labelling database entry for this substance, see reference below. This also changes the data presented in Section 11.1a). New information is identified with a side bar in the right-hand margin.

Explanation of H phrases that appear in Section 3:

H312 Harmful in contact with skin

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

References

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) Classification and Labelling Database entry for CAS 85586-07-8

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/133245>

Accessed 5th May 2020

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.