

Safety Data Sheet

Prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EU) 830/2015

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

1.1 Product identifier Duo Max Fogging and Vaporisation Fluid

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

Relevant identified uses: Disinfectant

Uses advised against: Not applicable

1.3 Details of the supplier of the safety data sheet

Supplier name: DuoTech Holdings Limited

Supplier address: Feeder Road, Bristol, BS2 0TH

Supplier telephone number: 0845 519 1112

Supplier email address: info@duo-max.com

1.4 Emergency telephone number

England, Scotland and Wales: Contact NHS 111/NHS 24: 111 (24 hours)

Northern Ireland: Contact your local GP (or "Out of hours Service") (24 hours)

0845 519 1112 (office hours)

07855 845 180 (out of hours)

2. Hazards identification:

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Eye irritation category 2: H319 Causes serious eye irritation

2.1.2 Additional information

None

2.2 Label elements

Hazard pictograms:



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Signal word:

WARNING

Hazard statements:

H319 Causes serious eye irritation

Precautionary statements:

P280 Wear Eye Protection

P280 Wear Protective Gloves

P102 Keep out of reach of children.

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

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

Supplemental Hazard information:

None

2.3 Other hazards

A PBT or vPvB assessment has not been carried out according to current EU criteria. No substances contained in this product have been identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

3. Composition/information on ingredients:

3.1 Substances

Not applicable.

3.2 Mixtures

Name	CAS number	EC number	%	Classification CLP 1272/2008
Sodium Carbonate	497-19-8	207-838-8	< 2%	Eye Irrit. 2, H319
Didecyltrimethylammonium chloride	7173-51-5	230-525-2	< 1%	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411

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Mono ethylene glycol	107-21-1	203-473-3	< 1%	STOT RE 2, H373 Acute Tox. 4, H302
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For the full text of the H hazard statements mentioned in this chapter, see section 16.

4. First aid measures:

4.1 Description of first aid measures

- General advice: Use first aid treatment according to the nature of the injury. Never give anything by mouth to an unconscious person. When symptoms persist or in all cases of doubt, seek medical advice.
- Following inhalation: Remove victim to fresh air. Give oxygen and seek medical help if breathing is difficult.
- Following skin contact: Wash off immediately with plenty of soap and water. Remove contaminated clothes. If irritation persists, seek medical attention.
- Following eye contact: Remove contact lenses if victim is wearing them and if they can be easily removed. Rinse immediately with plenty of water for at least 15 minutes. Get medical attention.
- Following ingestion: Wash out mouth with plenty of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical help immediately.
- Protection of first-aiders: Avoid contact with eyes. Use personal protection recommended in Section 8.

See Section 11: TOXICOLOGICAL INFORMATION

4.2 Most important symptoms and effects, both acute and delayed

May cause eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures:

5.1 Extinguishing media

Small Fire: Carbon dioxide, dry chemical powder, alcohol resistant foam or water fog. Large Fire: Use alcohol resistant foam or water fog.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

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During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide and water vapour.

5.3 Advice for firefighters

Keep people away. Isolate fire area and deny unnecessary entry. Smoke from fires is toxic; take precautions to protect personnel from exposure, wear positive-pressure self-contained breathing apparatus (SCBA). Take care on the use of direct water stream, which may spread fire. In the event of an adjacent fire, cool containers with water spray.

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Employ good industrial hygiene practice. Use personal protective equipment, avoid contact with eyes.

6.1.2. For emergency responders

Employ good industrial hygiene practice. Use personal protective equipment, avoid contact with eyes.

6.2 Environmental precautions

See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Collect product and dispose of in accordance with local requirements.

6.4 Reference to other sections

See Section 12 for additional Ecological Information.

7. Handling and Storage:

7.1 Precautions for safe handling

Employ good industrial hygiene practice. Wash hands thoroughly after handling. Gloves may wish to be worn if handling the product for prolonged periods.

7.2 Conditions for safe storage, including any incompatibilities



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Store in a cool, dry, well-ventilated area, above 0 °C. Avoid exposure to direct sunlight and sources of heat. Keep containers tightly closed when not in use.

7.3 Specific end use(s)
Not applicable.

8. Exposure controls/personal protection:

8.1 Control parameters

EU Exposure limits:

Mono ethylene glycol (CAS 107-21-1)

Occupational Exposure Limit Value (IOELV)– eight hours		Occupational Exposure Limit Value (IOELV) – short term	
ppm	mg/m ³	ppm	mg/m ³
20	52	40 (1)	104 (1)

(1) 15 minutes average value

8.2 Exposure controls

8.2.1 Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas. Ensure hand and eye washing facilities are available.

8.2.2 Personal protection equipment: Avoid contact with eyes – splash-proof safety glasses are recommended.

Avoid prolonged contact with skin – rubber or latex gloves are recommended if handling large quantities.

Avoid breathing vapours or mists – no specific PPE recommendations for normal use conditions.

8.2.3 Environmental exposure controls: Avoid release to drains, soil, ground and surface water.

9. Physical and chemical properties:

- (a) Appearance: Clear to Straw coloured liquid
- (b) Odour: Characteristic Odour
- (c) Odour threshold: Not available
- (d) pH: 10.8 – 11.4
- (e) Melting point/freezing point: Not available
- (f) Initial boiling point and boiling range: 100C
- (g) Flash point: Not available
- (h) Evaporation rate: Not available

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- (i) Flammability (solid, gas) : Not flammable
 - (j) Upper/lower flammability or explosive limits: Not available
 - (k) Vapour pressure: Not available
 - (l) Vapour density: Not available
 - (m) Relative density: 0.95 -1.02 g/cm³ at 20°C
 - (n) Solubility(ies) : Completely miscible in water in all proportions.
 - (o) Partition coefficient: n-octanol/water: Not available
 - (p) Auto-ignition temperature: Not available
 - (q) Decomposition temperature: Not available
 - (r) Viscosity: Not available
 - (s) Explosive properties: Not available
 - (t) Oxidising properties: Not available

9.2 Other information

None available

10. Stability and Reactivity:

10.1 Reactivity

No reactivity is expected under normal, recommended storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and usage conditions.

10.3 Possibility of hazardous reactions

None expected.

10.4 Conditions to avoid

Prevent exposure to direct sunlight, heat and freezing conditions.

10.5 Incompatible materials

Avoid contact with oxidising agents, strong acids, aldehydes, ketones and other known incompatible chemicals

10.6 Hazardous decomposition products

Will not decompose under normal use conditions.

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11. Toxicological information:

11.1. Information on toxicological effects

(a) acute toxicity;

Acute oral (LD₅₀ values): Data on product not available. Not classified for acute oral toxicity according to the Regulation (EC) No 1272/2008 (CLP).

Acute dermal (LD₅₀ values): Data on product not available. Not classified for acute dermal toxicity according to the Regulation (EC) No 1272/2008 (CLP).

Acute inhalation (LD₅₀ values): Data on product not available. Not classified for acute inhalation toxicity according to the Regulation (EC) No 1272/2008 (CLP).

(b) skin corrosion/irritation;

Data on product not available. Not classified for skin irritation according to the Regulation (EC) No 1272/2008 (CLP).

(c) serious eye damage/irritation;

Data on product not available. Eye damage / Irritation Category 2.

(d) respiratory or skin sensitisation;

Data on product not available. Not classified for respiratory or skin sensitisation according to the Regulation (EC) No 1272/2008 (CLP).

(e) germ cell mutagenicity;

Data on product not available. Not classified for germ cell mutagenicity according to the Regulation (EC) No 1272/2008 (CLP).

(f) carcinogenicity;

Data on product not available. Not classified according to the Regulation (EC) No 1272/2008 (CLP).

(g) reproductive toxicity;

Data on product not available. Not classified for reproductive toxicity according to the Regulation (EC) No 1272/2008 (CLP).

(h) STOT-single exposure;

Data on product not available. Not classified for STOT-single exposure according to the Regulation (EC) No 1272/2008 (CLP).

(i) STOT-repeated exposure;



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Data on product not available. Not classified for STOT-repeated exposure according to the Regulation (EC) No 1272/2008 (CLP).

(j) aspiration hazard

Data on product not available. Not classified for aspiration hazard according to the Regulation (EC) No 1272/2008 (CLP).

12. Ecological information:

12.1 Toxicity

Data on product not available. Product not classified according to the Regulation (EC) No 1272/2008 (CLP).

12.2 Persistence and degradability

Data on product is not available.

12.3 Bioaccumulative potential

Data on product is not available.

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

A PBT or vPvB assessment has not been carried out according to current EU criteria.

12.6 Other adverse effects

Not applicable

12.7 Additional information

Not applicable

13. Disposal considerations:

13.1 Waste treatment methods:

13.1.1 Product / Packaging disposal:



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Do not discharge large volumes into sewers, on the ground or into any body of water. All disposal methods must be in compliance with local regulations (Control of Pollution Act 1980)
For unused and uncontaminated product, the preferred disposal options include sending to a licensed, permitted recycler or reclaimer.

13.1.2 Waste treatment-relevant information:
Not applicable

14. Transport information:

- 14.1 UN number: Not applicable
- 14.2 UN proper shipping name: Not applicable
- 14.3 Transport hazard class(es): Not applicable
- 14.4 Packing group: Not applicable
- 14.5 Environmental hazards: Not applicable
- 14.6 Transport in bulk according to Annex II of MARPOL 73/78 and IBC code: Not applicable
- 14.7 Special precautions for user: Not applicable

15. Regulatory information:

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

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.1.1 National regulations: None known



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15.2 Chemical Safety Assessment: Not applicable

16. Other information:

Full text of the H-statements and precautionary statements mentioned in section 3.

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H319 Causes serious eye irritation

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

The following definitions of terms and abbreviations used within this document are used:

CAS: Chemical Abstracts Number;

IOELV: Occupational Exposure Limit Value

Last modified: 28th January 2021

The data contained in this data sheet is based on DuoTech Holdings Limited present knowledge of the health and safety properties of the product, and is believed to be accurate and given in good faith.

The physical and chemical properties are typical values only and do not constitute the specification of the product, which will be agreed separately.

The data given here only applies when product is used for proper application(s). The product is not sold as suitable for applications other than those identified at section 1.2, usage as such may cause risks not mentioned in this sheet.

It is for the customer to satisfy itself on the suitability of the product for its own particular purpose. DuoTech Holdings Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded, except to the extent that law prevents such exclusion.

