

SAFETY DATA SHEET

LifeSafe Technologies StaySafe All in 1

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Compilation date: 12/04/2022

Revision date: 12/04/2025

Revision No: 1

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

1.1. Product identifier

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

Product name: StaySafe All in 1

Use of substance / mixture: Fire extinguishing media. Fire suppressant media.

1.3. Details of the supplier of the safety data sheet

Company name: LifeSafe Technologies LTD
1 Sopwith Crescent
Wickford
Essex
SS18YU
United Kingdom

Tel: +44 (0)207 870 4890 (09:30 - 18:30 Mon-Fri)

Email: info@lifesafetechnologies.com

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Emergency tel: +44 07825147360

Classification under CLP: Plastic pressurised bottle non flammable, non hazardous. This product has no classification under CLP.

2.2. Label elements

2.3. Other hazards

Label elements: This product has no label elements. - **PBT**: This product is not identified as a PBT/vPvB substance

H229 Pressurised container may burst if heated, **P251**, Do not pierce or burn after use, **P410**, protect from sunlight, **P412**, Do not expose to temperatures exceeding 50oc

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

AMMONIUM BICARBONATE - REACH registered number(s): 01-2119486970-26-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
213-911-5	1066-33-7	-	Acute Tox. 4: H302	1-10%

[cont...]

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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. If irritation develops or persists seek medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Not applicable under normal conditions of use. Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Move to fresh air in case of accidental inhalation of vapours. If symptoms develop seek medical attention.

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

Skin contact: There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: There may be irritation and redness. The eyes may water profusely. Repeated exposure may cause chronic eye irritation.

Ingestion: May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: May cause irritation of the mucous membranes and respiratory system. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum. Prolonged inhalation of mists may cause lung inflammation.

Delayed / immediate effects: * Short term incidental contact is unlikely to cause effects. Prolonged or repeated exposure may give rise to effects.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used. The product is developed for use in fire fighting situations.

[cont...]

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: None known. The product is developed for use in fire fighting situations. The product does not support combustion.

5.3. Advice for fire-fighters

Advice for fire-fighters: * The product is developed for use in fire fighting situations.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: * Avoid the formation and/or spread of aerosols or mists in confined spaces, and where this is not possible consider the need for appropriate ventilation. Avoid direct contact with the substance. Avoid contact with eyes and breathing mists.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: * Store in a cool, well ventilated area. Protect from temperatures below -10 oC.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Specific end use(s): No special requirement.

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL

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UK	See Section 16	-	-	-
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Hazardous ingredients:

AMMONIUM BICARBONATE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	4 mg/m3	-

DNEL/PNEC Values

Hazardous ingredients:

AMMONIUM BICARBONATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	62.5 mg/m3	Workers	Systemic
DNEL	Inhalation (repeated dose)	62.5 mg/m3	Workers	Local
DNEL	Dermal (repeated dose)	57 mg/kg	Workers	Systemic
DNEL	Inhalation - Short Term	160.7 mg/m3	Workers	Systemic
DNEL	Inhalation - Short Term	160.7 mg/m3	Workers	Local
DNEL	Inhalation (repeated dose)	13.33 mg/m3	Consumers	Systemic
DNEL	Inhalation (repeated dose)	13.33 mg/m3	Consumers	Local
DNEL	Inhalation - Short Term	143.91 mg/m3	Consumers	Systemic
DNEL	Inhalation - Short Term	143.91 mg/m3	Consumers	Local
DNEL	Dermal (repeated dose)	34.2 mg/kg	Consumers	Systemic
PNEC	Fresh water	0.37 mg/l	-	-
PNEC	Marine water	0.037 mg/l	-	-
PNEC	Fresh water sediments	0.1332 mg/kg	-	-
PNEC	Marine sediments	0.01332 mg/kg	-	-
PNEC	Sewage Treatment Plant (STP)	1347 mg/l	-	-
PNEC	Soil (agricultural)	74.9 mg/kg	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: * Respiratory protection is not likely to be required under normal conditions of use. Use suitable respiratory protection such as filter class P3SL if exposed within a confined space where aerosols or mists are present, or where repeated or prolonged exposure can be anticipated.

Hand protection: * Gloves are not likely to be required under normal conditions of use. Wear protective gloves where repeated or prolonged exposure can be anticipated.

Eye protection: * Eye protection is not likely to be required under normal conditions of use. Wear safety

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glasses & ensure an eye bath is to hand where significant exposure can be reasonably anticipated through process failure or loss of control.

Skin protection: Protective clothing is not required under normal conditions of use.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless to slightly milky.

Odour: Barely perceptible odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Viscosity: Non-viscous

Boiling point/range°C: >35

Melting point/range°C: No data available.

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: >93

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: Not applicable.

Vapour pressure: No data available.

Relative density: ~ 1.23 g/ml @ 20oC

pH: Approx. 7

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Other information: Product is not flammable. No further information available at this time.

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

10.3. Possibility of hazardous reactions

Chemical stability: Stable under normal conditions.

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames. Low temperatures and frost. The product is developed for use in fire fighting situations so may change form under those type of conditions.

10.5. Incompatible materials

Materials to avoid: Acids. Bases. Alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: May release ammonia fumes. The product is developed for use in fire fighting situations.

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Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

AMMONIUM BICARBONATE

ORAL	RAT	LD50	1576	mg/kg
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Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: There may be irritation and redness. The eyes may water profusely. Repeated exposure may cause chronic eye irritation.

Ingestion: May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: May cause irritation of the mucous membranes and respiratory system. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum. Prolonged inhalation of mists may cause lung inflammation.

Delayed / immediate effects: * Short term incidental contact is unlikely to cause effects. Prolonged or repeated exposure may give rise to effects.

Other information: There is no further information at this time.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

AMMONIUM BICARBONATE

FISH	96H LC50	102	mg/l
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12.2. Persistence and degradability

Persistence and degradability: The product is inorganic so can not be biodegradable, however it is expected to degrade or disassociate.

12.3. Bioaccumulative potential

Bioaccumulative potential: There is no data available at present. Product is not expected to bioaccumulate.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Mobility: Non-volatile. Soluble in water.

PBT identification: This product is not identified as a PBT/vPvB substance.

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12.6. Other adverse effects

Other adverse effects: There is no data available at present. Not expected to cause significant environmental impact. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: No significant opportunity for recovery available with the product. No information available at this time.

Disposal of packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licensed contactor.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport

Section 15: Regulatory information

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

Specific regulations: No specific applicable legislation.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

* indicates text in the SDS which has changed since the last revision.

There are no levels set for this product thus normal standards of industrial hygiene should be observed.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.