

LEHAVOT FX

Wet Chemical Solution to Lehavot WCK Kitchen Fire Suppression System

Issue date: 22/May/2025

1. Product and Company Identification

Material name LEHAVOT FX
Version 04
Revision Date 22nd May 2025
CAS # Mixture
Product use Extinguishing Agent on Kitchen Fire Suppression System
Manufacturer / Importer / Supplier
Name Lehavot Production & Protection (1995) Ltd.
Address Kibbutz Lehavot Habashan - Upper Galilee - 1212500 - ISRAEL
Phone +972 4 6905020
Internet www.lehavot.com
Emergency Phone Number 972 4 7771900 Rambam Hospital – 972 4 8541900

2. Hazard Identification

Classification of the substance or mixture

Indications of danger: Corrosive

R-phrases: Causes burns.

Label elements

Danger symbols: C – Corrosive



Special labelling of certain mixture

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Hazardous components which must be listed on the label

caustic potash, potassium hydroxide

R phrases

34 Causes burns.

Material name: ABC Fire Extinguisher - Version 04 - Revision date: 26/05/2025

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S phrases

- 23 Do not breathe spray.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Additional advice on labelling

Not required

Other hazards

Within expanded foam respiration is not possible, danger of suffocation!

3. Composition / Information on Ingredients

Mixtures, Wet Chemical solution on Nitrogen pressurized cylinders

Hazardous components

Caustic potash, potassium hydroxide 1 - 5 %

CAS no. 1310-58-3 Xn, C R22-35

Acute Tox. 4, Skin Corr. 1A; H302 H314

Monopotassium Phosphate, as P₂O₅ 15 – 20%

CAS no. 7778-77-0 2B

Skin Irrit. 3, H316, H320

Water purified, 80 – 85%

CAS no. 7732-18-5

Carboxymethyldimethyl-3-[[[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)sulphonyl] amino]propylammonium hydroxide – 0.6%

CAS no. 34455-29-3

Full text of R- and H-phrases: see section 16.

Further Information

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Material name: ABC Fire Extinguisher - Version 04 - Revision date: 26/05/2025

4. First Aid Measures

First Aid procedures

After inhalation

In case of shortness of breath, give oxygen.

Keep under medical supervision for at least 48 hours.

Show this safety data sheet to the doctor in attendance.

No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.

After contact with skin

Wash off immediately with soap and plenty of water. Take off all contaminated clothing immediately.

If a person feels unwell or symptoms of skin irritation appear, consult a physician.

Wash contaminated clothing before re-use.

After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material (s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Suitable extinguishing media

Product itself is fire extinguishing agent

Special hazards arising from the substance or mixture

At high temperature: concentrate gives toxic products. Thermal decomposition of usage concentrations does not present a hazard

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment.

Material name: ABC Fire Extinguisher - Version 04 - Revision date: 26/05/2025

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Environmental precautions

Should not be released into the environment.

Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Soak up condensate with inert absorbent material and collect in ventilated waste container for disposal.

Clean up promptly by sweeping or vacuum.

Keep in suitable, closed containers for disposal.

7. Handling and Storage

Handling Keep container tightly closed in a dry and well-ventilated place.

Advice on protection against fire and explosion

No special handling advice required.

8. Exposure Controls / Personal Protection

Exposure limits (EH40)

CAS No.	Substance	ppm	mg/m ³	Fibers/ml	Category	Origin
1310-58-3	Potassium Hydroxide	-	2		TWA (8h)	WEL
		-	-		STEL (15 min)	WEL

Exposure controls

Ventilation and engineering controls

Local exhaust ventilation is preferred, because it prevents Nitrogen dispersion into the workplace by eliminating it as its source.

Engineering controls If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and Avoid generation of dust.

Hygiene measures

Eye/face protection Avoid eye contact with vapor, spray, or mist. Wear vented goggles.

Hand protection Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: Butyl rubber.

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Skin protection	Avoid skin contact.
Respiratory	Use supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this product.
Environmental Exposure controls	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

9. Physical & Chemical Properties

Information on basic physical and chemical properties

Physical state:	liquid
Colour:	Clear, colored liquid
pH-Value (at 20 °C):	7.0 - 9.0
Changes in the physical state	
Melting point: -5 °C	
Boiling point: 100 °C	
Density (at 20 °C):	1.19 g/cm ³
Water solubility:	completely miscible

10. Chemical Stability & Reactivity Information

Chemical Stability	Material is stable under recommended conditions of storage, use and temperature
Incompatible material	Strong acids.
Hazardous decomposition	
Products	No decomposition if stored and applied as directed.

11. Toxicological Information

Acute toxicity				
CAS No.	Chemical name			
Exposure routes	Method	Dose	Species	h Source
1310-58-3	caustic potash, potassium hydroxide			
Acute oral toxicity	LD50	273 mg/kg	Ratte	
Irritation and corrosivity				
Irritant effects				
Sensitizing effects				

Material name: ABC Fire Extinguisher - Version 04 - Revision date: 26/05/2025

Irritant effects

Severe effects after repeated or prolonged exposure

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin

Resulting in non-allergic contact dermatitis and absorption through the skin.

12. Ecological Information

Toxicity

Contains no substances known to be hazardous to the environment or not degradable in wastewater

treatment plants.

CAS No. Chemical name

Aquatic toxicity Method Dose Species hSource

1310-58-3 caustic potash, potassium hydroxide

Acute fish toxicity LC50 80 mg/l Gambusia affinis 96

Persistence and degradability

Waste water from subsequent processing should be given appropriate treatment in line with local regulations. The surfactant components are more than 90% biodegradable.

Bio accumulative potential

Does not bio accumulate. Ecological injuries are not known or expected under normal use.

Further information

Discharge into the environment must be avoided

13. Disposal Considerations

Disposal Instructions If recycling is not practicable, dispose of in compliance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions: 07 06 99

unused Products Dispose of in accordance with local regulations.

14. Transport Information

Basic shipping requirements:

UN number UN1044

Proper shipping name Wet Chemical fire extinguisher cylinder with compressed gas

Material name: ABC Fire Extinguisher - Version 04 - Revision date: 26/05/2025

Hazard class 2.2 – Non-Flammable gas

Additional information:

Special provisions 18, 110

Packaging exceptions 309

Packaging non bulk 309

Packaging bulk None

ERG number 126



Land transport (ADR/RID)

Other applicable information (land transport)

Not classified for this transport way

Inland waterways transport (AND)

Other applicable information (inland waterways transport)

Not classified for this transport way

Marine transport (IMDG)

Other applicable information (marine transport)

Not classified for this transport way

Air transport

Other applicable information (inland waterways transport)

Not classified for this transport way

15. Regulatory Information

Safety, health and environmental regulation specific for the substance or mixture

EU regulation information

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Information according to 2010/18/EU (SEVESO III) Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D) 1-slightly water contaminating

Chemical safety assessment

For this mixture a chemical safety assessment has been carried out.

16. Other Information

Full text of R-phrases referred to under sections 2 and 3

22 Harmful if swallowed.

34 Causes burns.

35 Causes severe burns.

Full text of H-Statements referred to under sections 2 and 3

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, Information and belief at the date of its publication. The information given is designed only as a Guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific Material designated and may not be valid for such material used in combination with any other Materials or in any process, unless specified in the text.

The mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor`s safety data sheet)

Wet Chemical solution

prepared by

Lehavot Production & Protection Ltd.

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