

## MATERIAL SAFETY DATA SHEET

Compliant with: Regulation (EC) Nr. 1907/2006 (REACH), Regulation (EC) Nr. 1272/2008 (EU-GHS, CLP), Regulation (EC) Nr. 453/2010 and Regulation (EC) Nr. 830/2015 and aligned with the UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 5<sup>th</sup> Ed., 2013

### **mabo automatic fire extinguisher**

Revised: January 10, 2021.

## **SECTION 1 PRODUCT AND COMPANY IDENTIFICATION**

### 1.1 Product – Identification

1.1.1 Product name **mabo automatic fire extinguisher**

1.1.2 Description transparent blue, water-based liquid in a 600 ml hermetically welded glass ampoule

### 1.2 Product Application

1.2.1 Recommended use: automatic fire extinguisher, class of fires A, B, F and energized equipment (does not cause any short circuit under any voltage); extinguishing starting fire in indoor space -16m<sup>3</sup>; size of the source inside 1m<sup>2</sup> - up to 5 Lit. of flammable liquid. Recommended application procedures assure achieving zero environmental release.

1.2.2 Uses Advised Against: extinguishing of all other fire classes aside definition above under 1.2.1 and not following the using instructions.

### 1.3 Details of the Supplier of the safety data sheet

Manufacturer/Supplier: Flamark Super Ltd  
Street address/P.O. Box: Turopoljska 2  
Country ID/Postcode/Place: 10408 Velika Mlaka, Croatia  
Telephone number: +385 98 276708, +385 1 6233595  
e-mail address: [info@flamarksuper.com](mailto:info@flamarksuper.com)  
Additional Information on: [www.flamarksuper.com](http://www.flamarksuper.com)

### 1.4 Emergency

Contacts: Centar za kontrolu otrovanja, Ksaverska cesta 2, 10000 Zagreb,  
Tel.: (+385) 1 2348342 and Hrvatski zavod za toksikologiju i antidoping,  
Borongajska 83g, 10000 Zagreb, Tel.: (+385) 98 405636  
National Emergency Phone-No.: +385 112

## **SECTION 2 HAZARD IDENTIFICATION**

### 2.1 Classification of the substance or mixture

According to data of chemical components suppliers, dangerous components are below reportable levels and consequently, mixture is not classified as dangerous.

The recommended application procedure assures achieving zero environmental release.

R22 Harmful if swallowed R36 Irritating to eyes

However, a safety data sheet is being supplied for it upon request of distributors.

### 2.2 Label elements

No hazards or precautionary statements applicable.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

Water-solution of: urea, ammonium and alkali salts of mineral acids, AFFF surfactant telomere-based (less than 1wt%), no PFOS and no PFOA (C8-based flour-surfactants).

Hazardous ingredients	CAS No. EINECS/ELINCS No	Concentr. w/w %	Hazards (R-phrases)	Hazard symbol
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6	<1,0	R36	Xi
sodium octyl sulphate	142-31-4 205-535-5	<0,2	R38-41	Xi
poly(1,1,2,2-tetrafluoro-1,2-ethanediyl), alpha-fluoro-omega-2-[3-((carboxylatomethyl)dimethylammonio)propylaminosulfonyl]ethyl	161278-39-3 500-631-6	<1,0	R52/53	-
ethanol	64-17-5 200-578-6	<0.1	R11	F

**SECTION 4 FIRST AID MEASURES**

Inhalation: no harm

Skin contact: wash affected area with soap and water

Eyes: remove contact lenses. Flush eyes with clear running water while holding eye lids open.

Ingestion: non-toxic, if swallowed do not induce vomiting, seek medical advice immediately

**SECTION 5 FIRE FIGHTING MEASURES**

General hazards: no danger of fire, product itself is fire retardant

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Action to be taken in case of, material is being released or spilled: flush area with water.

**SECTION 7 HANDLING AND STORAGE**

Precautions to be taken in handling and storage: protect from extreme temperatures

Shelf life: 10 years

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure control: none required

Personal protection: practice safe workplace habits

Respiratory protection (specify type): none required

Protective gloves: none required

Eye protection: none required

Other protective clothing or equipment: none required

Work / hygienic practices: practice safe workplace habits

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: transparent water-based liquid,

Odor: mild ammonia odor

pH (20 C): 7,4 – 7,5

Melting point/freezing point: similar to water, not determined

Initial boiling point and boiling range: similar to water, not determined

Relative density: 1,10 – 1,14

Solubility in water: water solution  
Viscosity: similar to water, not determined  
Density at 20 C 1,16 -1,17

## **SECTION 10 STABILITY AND REACTIVITY**

- 10.1 Reactivity: no known reactions  
10.2 Chemical stability: Under storage at normal ambient temperatures, the product is stable.  
10.3 Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions  
10.4 Conditions to avoid: extreme temperatures  
10.5 Incompatible materials: not known  
10.6 Hazardous decomposition products: no known hazardous decomposition products

## **SECTION 11 TOXICOLOGICAL INFORMATION**

Not known any toxicological (health) effects

## **SECTION 12 ECOLOGICAL INFORMATION**

- 12.1 Toxicity  
Not determined  
12.2 Persistence and degradability  
Abiotic Degradation: Not determined  
Physical- and photo-chemical elimination: Not determined  
Biodegradability (21 days): 100,0 %; testing method according to EN ISO 9439:2000 (Daphnia magna)  
12.5 Results of PBT and vPvB assessment  
**mabo** automatic fire extinguisher is rapid biodegradable mixture with no PBT (Persistence, Bioaccumulation, Toxicity) and no vPvB substances.

## **SECTION 13 DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods  
Not considered as a hazardous waste. Dispose after diluting with water.  
Packaging dispose according to regulations for household wastes

## **SECTION 14 TRANSPORT INFORMATION**

**mabo** automatic fire extinguisher is not labeled as hazardous material. No restriction for transportation of product. Not IATA restricted.  
Customs Commodity Code (HS code): 84241020  
EAN Code: 3857500038623

## **SECTION 15 REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
Not known any specific regulation  
15.2 Chemical Safety Assessment:  
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **SECTION 16 OTHER INFORMATION**

### **Disclaimer:**

This MSDS is to the best of our knowledge and belief, accurate and reliable as of the date compiled. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.

Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

CERTIFICATE: Germanischer Lloyd, DNV – GL Approval Certificate No. 13-857-15 HH