Safety Data Sheet

according to Regulation (EC) No 1907/2006 corrected byRegulation (EU) 2020/878

MBK LIQ FFC

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

1.1. Product identifier

MBK LIQ FFC

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

1.3. Details of the supplier of the safety data sheet

Company name:	MOBIAK S.A.
Street:	Kathiana Akrotiriou
Place:	GR-GR7310 Chania
Telephone:	+302821063222
E-mail:	info@mobiak.com
Internet:	www.mobiak.com
Responsible Department:	Office Open Hours: 08:00-17:00

1.4. Emergency telephone number:

+302821063222

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H318	Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

Special labelling of certain mixtures

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

2.3. Other hazards

Contains no PBT/vPvB substances = 0.1% assessed in accordance with REACH Annex XIII The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			5-15 %
	203-961-6	603-096-00-8	01-2119475104-44	
	Eye Irrit. 2; H319			
107-21-1	ethanediol, ethylene glycol			5-10 %
	203-473-3	603-027-00-1	01-2119456816-28	
	Acute Tox. 4; H302			
90583-18-9	Sulfuric acid, mono-C12-14-alkyl esters, compds. withtriethanolamine			2-10 %
	292-216-9		01-2119970645-28	
142-31-4	Sodium Octyl Sulfate			2-10 %
	205-535-5		01-2119966154-35	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
142-87-0	Sodium decyl Sulfate			0.2-3 %
	205-568-5		01-2119970328-30	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			<0.01 %
	220-120-9	613-088-00-6		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	5-15 %
	dermal: LD50 = 4120 mg/kg; oral: LD50 = 5660 mg/kg		
107-21-1	203-473-3	ethanediol, ethylene glycol	5-10 %
	dermal: LD50 = 10600 mg/kg; oral: ATE = 500 mg/kg		
142-87-0	205-568-5	Sodium decyl Sulfate	0.2-3 %
	oral: ATE = 500 mg/kg		
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	<0.01 %
	oral: ATE = 500 mg/kg Skin Sens. 1; H317: >= 0.05 - 100		

Labelling for contents according to Regulation (EC) No 648/2004

preservation agents (Benzisothiazolinone).

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Remove person to fresh air and keep comfortable for breathing. Consult a doctor/medical service if you feel unwell.

After contact with skin

Wash skin with plenty of water.

After contact with eyes

Wash immediately with plenty water (during 20 minutes), also under eyelids. Consult an eye specialist.

After ingestion

Call a poison center or a doctor if you feel unwell.

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

Remove contaminated clothes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

No additional information available

Unsuitable extinguishing media

Self-contained breathing apparatus. Complete protective clothing.

5.2. Special hazards arising from the substance or mixture

Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area.
Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not attempt to take action without suitable protective equipment.
Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not handle until all safety precautions have been read and understood.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.3. Methods and material for containment and cleaning up

For cleaning up

Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.

Other information

Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Ensure good ventilation of the work station. Wear personal protective equipment.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place.

Hints on joint storage

maximum storage temperature 50
minimum storage temperature 0

Further information on storage conditions

Keep away from : Heat sources. Ignition sources.
Keep container in a well-ventilated place. Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	
		40	104		STEL (15 min)	

8.2. Exposure controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety goggles, Safety glasses With side shields EN 166

Hand protection

Disposable gloves, Reusable gloves - EN ISO 374

Skin protection

Wear suitable protective clothing
Wear personal protective equipment. Chemical resistant safety shoes. Keep suitable chemically resistant protective clothing readily available for emergency use

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazards

No additional information available

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:		
Odour threshold:	Not applicable	
Flammability:		Not applicable
Auto-ignition temperature:		Not avaliable
Decomposition temperature:		Not avaliable
pH-Value (at 20 °C):		6-9
Density (at 20 °C):		1.06-1.10 g/cm³

9.2. Other information

Information with regard to physical hazard classes

Sustaining combustion: Not sustaining combustion

Other safety characteristics

Viscosity / dynamic: (at 20 °C) 15-25 mPa·s

Further Information

Refractive index : 1.39 - 1.43

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

None under recommended storage and handling conditions (see section 7).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 6258 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 5660 mg/kg	Rat		
	dermal	LD50 4120 mg/kg	Rabbit		
107-21-1	ethanediol, ethylene glycol				
	oral	ATE 500 mg/kg			
	dermal	LD50 10600 mg/kg	Rabbit	GESTIS	
142-87-0	Sodium decyl Sulfate				
	oral	ATE 500 mg/kg			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

Irritation and corrosivity

Serious eye damage/eye irritation: Causes serious eye damage.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
LC50 - Fish [1] 140 mg/l (Danio rerio)
EC50 - Crustacea [1] 350 mg/l (Daphnia magna)
EC50 72h - Algae [1] 70 mg/l (Scenedesmus subspicatus)

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute algae toxicity	ErC50 > 100 mg/l		Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No additional information available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56 (25ï¿½C)
107-21-1	ethanediol, ethylene glycol	-1,36

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
No additional information available

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

List of Wastes Code - residues/unused products

160304 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes other than those mentioned in 16 03 03

List of Wastes Code - used product

160304 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes other than those mentioned in 16 03 03

List of Wastes Code - contaminated packaging

160304 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes other than those mentioned in 16 03 03

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: Not applicable

Other applicable information (land transport)

Not classified for this transport carrier.

Inland waterways transport (ADN)

14.2. UN proper shipping name: Not applicable

Other applicable information (inland waterways transport)

Not classified for this transport carrier.

Marine transport (IMDG)

14.2. UN proper shipping name: Not applicable

Other applicable information (marine transport)

Not classified for this transport carrier.

Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

Not classified for this transport carrier.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 55, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes:	15.49 % (179.684 g/l)
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox: Acute toxicity
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Further Information

Such information is actually to be best of our knowledge and believes accurate as reliable. This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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