

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Bio Grill liquid ME  
Revision date : 13.09.2023  
Print date : 13-09-2023

Version (Revision) : 2.0.6 (2.0.5)

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

### 1.1 Product identifier

Bio Grill liquid ME (122000)

Fatty Acids, Methylesters ; CAS No. : 308065-15-8 ; REACH No. : 01-2119491160-46

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

#### Relevant identified uses

Lighter fluid for barbecue and fire place. Consumer uses: Private households (= general public = consumers)

#### Uses advised against

This product should not be used for purposes other than the applications referred to above.

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

#### Supplier

Sel Chemie BV

Street : Broekstraat 23

Postal code/City : 7122 MN Aalten

Telephone : +31 (0)543-471956

Information contact : Email: MSDS@selchemie.com

### 1.4 Emergency telephone number

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111, in Scotland: NHS 24 - dial 111 Ireland +353 (0)1 8092566 or +353 (0)1 8379964 National Poisons Information Centre

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

None

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local / national regulations.

### 2.3 Other hazards

#### Adverse human health effects and symptoms

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

#### Adverse environmental effects

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name : Fatty Acids, Methylesters

REACH No. : 01-2119491160-46

CAS No. : 308065-15-8

Purity : 100 % [mass]



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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician in any case!

#### In case of skin contact

Wash immediately with: Water and soap Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use. In case of skin irritation, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion

Call a physician in any case! Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

### 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

Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

Full water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Hazardous combustion products Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Protective equipment

Avoid contact with skin, eyes and clothes. Use personal protection equipment. Provide adequate ventilation.

##### Emergency procedures

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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## 6.3 Methods and material for containment and cleaning up

### For containment

Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

### For cleaning up

Suitable material for taking up: Sand

## 6.4 Reference to other sections

See protective measures under point 7 and 8.

## SECTION 7: Handling and storage



## 7.1 Precautions for safe handling

### Protective measures

Measures to prevent fire

Observe the usage/storage instructions. Avoid contact with eyes. Avoid contact with skin. Provide adequate ventilation.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

### Hints on joint storage

Keep away from alkali Strong oxidizers

Storage class (TRGS 510) : 10

## 7.3 Specific end use(s)

Lighter fluid for barbecue and fire place.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### DNEL-/PNEC-values

#### PNEC

Limit value type :	PNEC (Aquatic, freshwater)
Exposure route :	Water
Limit value :	2 mg/l
Limit value type :	PNEC (Aquatic, intermittent release)
Exposure route :	Water
Limit value :	0,00255 mg/l
Limit value type :	PNEC (Aquatic, marine water)
Exposure route :	Water
Limit value :	0,2 mg/l
Limit value type :	PNEC (Sediment, freshwater)
Exposure route :	Sediment
Limit value :	26,6 mg/kg
Limit value type :	PNEC (Sediment, marine water)
Exposure route :	Sediment
Limit value :	2,66 mg/kg
Limit value type :	PNEC Soil, Freshwater
Exposure route :	Soil
Limit value :	10 mg/kg dw

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Limit value type : PNEC (Secondary poisoning)  
Exposure route : Oral  
Limit value : 66,6 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 100 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Use only in well-ventilated areas.

### Personal protection equipment



#### Eye/face protection

Suitable eye protection

Eye glasses with side protection

#### Skin protection

Hand protection



Suitable gloves type : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material : NBR (Nitrile rubber)

Required properties : liquid-tight.

Remark : DIN-/EN-Norms EN 420 EN ISO 374

#### Body protection

Protective clothing is not necessary for normal use.

Remark : Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use.

#### Respiratory protection

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

Usually no personal respiratory protection necessary.

#### General information

Wash hands before breaks and after work.

#### Environmental exposure controls

Disposal: see section 13

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Appearance : Liquid

Colour : colourless

Odour : characteristic

#### Safety characteristics

Melting point/freezing point : 6,5 °C

Initial boiling point and boiling range : ( 1013 hPa ) 260 - 300 °C

Flash point : 130 - 150 °C

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Auto-ignition temperature :		220	°C	
Vapour pressure :	( 25 °C )	<	0,0055	hPa
Density :	( 15 °C )		0,867 - 0,872	g/cm <sup>3</sup>
Water solubility :	( 20 °C )	<	60	g/l
log P O/W :			5,4 - 6,4	Estimated
Cinematic viscosity :	( 40 °C )		2,4 - 2,7	mm <sup>2</sup> /s Calculated
Decomposition temperature :	No data available(test not performed)			
Flammable liquids :	not applicable, (not relevant under normal conditions of use)			
Lower explosion limit :	not applicable			
Upper explosion limit :	not applicable			
Evaporation rate (n-butylacetate = 1) :	No data available(test not performed)			
pH :	No data available(test not performed)			
Relative vapour density :	not applicable, (not relevant under normal conditions of use)			
Particle characteristics	not applicable			
Oxidising liquids :	No data available(test not performed)			
Explosive properties :	Not applicable.			

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Strong oxidizers Alkali

### 10.2 Chemical stability

Stable under normal conditions of use

### 10.3 Possibility of hazardous reactions

Stable under normal conditions of use

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Strong oxidizers Alkali

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	2000 Mg/kg bw/day
Method :	OECD 401

##### Acute inhalation toxicity

Parameter :	LC50
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 5 mg/l
Exposure time :	4 h
Method :	OECD 436

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## Corrosion

### Skin corrosion/irritation

Parameter : Skin corrosion/irritation  
Species : Rabbit  
Exposure time : 4 h  
Result : Non-irritant  
Method : OECD 404

### Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation  
Species : Rabbit  
Exposure time : 72 h  
Result : Non-irritant  
Method : OECD 405

## Respiratory or skin sensitisation

### Skin sensitisation

Parameter : Skin sensitisation  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

### In vitro mutagenicity

Parameter : Gene-mutations microorganisms  
Species : Salmonella typhimurium  
Result : Negative.  
Method : OECD 471 (Ames test)  
Parameter : Chromosomal aberrations mammalian cells  
Species : Hamster cells  
Result : Negative.  
Method : OECD 473

### Reproductive toxicity

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### Adverse effects on developmental toxicity

Parameter : NOAEL(C)  
Species : Rat  
Effective dose : 1000 Mg/kg bw/day  
Result : Negative.  
Method : OECD 414  
Parameter : NOAEL(C)  
Species : Rat  
Effective dose : 1000 Mg/kg bw/day  
Result : Negative.  
Method : OECD 422

## STOT-repeated exposure

### STOT RE 1 and 2

Parameter : STOT RE 1 and 2  
Exposure route : Rat  
Effective dose : 5500 mg/kg bw  
Result : Negative.

## 11.2 Information on other hazards

No information available.



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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50  
Species : Oryzias latipes (Ricefish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 1 mg/l  
Exposure time : 96 h  
Method : OECD 203

##### Acute (short-term) toxicity to crustacea

Parameter : EC50  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 7 day(s)  
Method : OECD 211

##### Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOELR  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : > 100 mg/l  
Exposure time : 21 day(s)  
Method : OECD 211

##### Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EL50  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : >= 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

##### Toxicity to microorganisms

Parameter : Bacteria toxicity  
Species : Bacteria toxicity  
Effective dose : >= 1000 mg/kg  
Exposure time : 3 h  
Method : OECD 209

#### Terrestrial toxicity

##### Toxicity to soil macroorganisms except of arthropods

##### Chronical earthworm toxicity (reproduction)

Parameter : NOEC  
Species : Eisenia fetida  
Evaluation parameter : Chronical earthworm toxicity (reproduction)  
Effective dose : = 1000 mg/kg  
Exposure time : 28 day(s)  
Method : OECD 222

### 12.2 Persistence and degradability

Readily biodegradable (according to OECD criteria).

#### Abiotic degradation

##### Abiotic degradation (Air)

Parameter : Half-life time  
Species : Hydrolysis  
Degradation rate : 87,396  
Test duration : month(s)

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Parameter : Half-life time  
Species : Photolysis  
Degradation rate : 29,2  
Test duration : h

## Biodegradation

Parameter : Biodegradation  
Degradation rate : = 78 %  
Test duration : 28 day(s)  
Evaluation : Biodegradable.  
Method : OECD 301C

## 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF)  
Value : 201 L/kg  
Parameter : Partition coefficient n-octanol /water (log P O/W)  
Value : 5,41 - 6,41  
No indication of bioaccumulation potential.

## 12.4 Mobility in soil

Log Koc :

### Adsorption

Parameter : Log KOW  
Effective dose : 3,85 - 25 °C

## 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 12.6 Endocrine disrupting properties

There is no evidence of endocrine disrupting properties.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Contain and dispose of waste according to local regulations. Handle contaminated packages in the same way as the substance itself.

#### Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

15 01 02 (Plastic packaging)

15 01 10\* (Packaging containing residues of or contaminated by dangerous substances)

13 07 03\* (Other fuels (including mixtures))

After intended use

Waste codes/waste designations according to EWC/AVV

15 01 02 (Plastic packaging)

15 01 10\* (Packaging containing residues of or contaminated by dangerous substances)

13 07 03\* (Other fuels (including mixtures))

## SECTION 14: Transport information

### 14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.



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## 14.4 Packing group

No dangerous good in sense of these transport regulations.

## 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

## 14.6 Special precautions for user

None

## 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 legislation

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

National regulations

Water hazard class

Class : nwg (Non-hazardous to water)

non-hazardous to water

### 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

MSDS in accordance with Regulation EC 2020/878.

### 16.2 Abbreviations and acronyms

a.i. = Active ingredient

ACGIH = American Conference of Governmental Industrial Hygienists (US)

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

AFFF = Aqueous Film Forming Foam

AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)

AOAC = AOAC International (formerly Association of Official Analytical Chemists)

aq. = Aqueous

ASTM = American Society of Testing and Materials (US)

atm = Atmosphere(s)

B.V. = Beperkt Vennootschap (Limited)

BCF = Bioconcentration Factor

bp = Boiling point at stated pressure

bw = Body weight

ca = (Circa) about

CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)

CEFIC = European Chemical Industry Council (established 1972)

CIPAC = Collaborative International Pesticides Analytical Council

CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Conc = Concentration

cP = CentiPoise

cSt = Centistokes

d = Day(s)

DIN = Deutsches Institut für Normung e.V.

DNEL = Derived No-Effect Level

DT50 = Time for 50% loss; half-life

EbC50 = Median effective concentration (biomass, e.g. of algae)

EC = European Community; European Commission

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EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EU = European Union  
EWC = European Waste Catalogue  
FAO = Food and Agriculture Organization (United Nations)  
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)  
h = Hour(s)  
hPa = HectoPascal (unit of pressure)  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG Code = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
ISO = International Organization for Standardization  
IUCLID = International Uniform Chemical Information Database  
IUPAC = International Union of Pure and Applied Chemistry  
kg = Kilogram  
Kow = Distribution coefficient between n-octanol and water  
kPa = KiloPascal (unit of pressure)  
LC50 = Concentration required to kill 50% of test organisms  
LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
mg = Milligram  
min = Minute(s)  
ml = Milliliter  
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)  
mp = Melting point  
MRL = Maximum Residue Limit  
MSDS = Material Safety Data Sheet  
n.o.s. = Not Otherwise Specified  
NIOSH = National Institute for Occupational Safety and Health (US)  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
NOx = Oxides of Nitrogen  
OECD = Organization for Economic Cooperation and Development  
OEL = Occupational Exposure Limits  
Pa = Pascal (unit of pressure)  
PBT = Persistent, Bioaccumulative or Toxic  
pH = -log10 hydrogen ion concentration  
pKa = -log10 acid dissociation constant  
PNEC = Previsible Non Effect Concentration  
POPs = Persistent Organic Pollutants  
ppb = Parts per billion  
PPE = Personal Protection Equipment  
ppm = Parts per million  
ppt = Parts per trillion  
PVC = Polyvinyl Chloride  
QSAR = Quantitative Structure-Activity Relationship  
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)  
SI = International System of Units  
STEL = Short-Term Exposure Limit  
tech. = Technical grade  
TSCA = Toxic Substances Control Act (US)  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative

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WHO = World Health Organization = OMS  
y = Year(s)

## 16.3 Key literature references and sources for data

None

## 16.4 Relevant H- and EUH-phrases (Number and full text)

None

## 16.5 Training advice

None

## 16.6 Additional information

None

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The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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