

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

1.1. Product identifier

Product form : Mixture
 Product name. : Sodium methanolate (30%)

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

1.2.1. Relevant identified uses

Main use category : Industrial use
 Use of the substance/mixture : Catalyst for the conversion of vegetable oils into biodiesel

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EnviroCat
 Rue Marcel Deflandre
 17000 La Rochelle - France
 T +33 5 46 43 43 46
s.mathieu@envirocat.fr

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
UNITED KINGDOM	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	+44 870 600 6266 (only for health professionals)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3 H226
 Met. Corr. 1 H290
 Acute Tox. 3 (Oral) H301
 Acute Tox. 3 (Dermal) H311
 Acute Tox. 3 (Inhalation) H331
 Skin Corr. 1B H314
 STOT SE 1 H370

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R10
 T; R23/24/25
 T; R39/23/24/25
 C; R34

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes severe burns. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. May be corrosive to metals.

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger
 Hazardous ingredients : Methanol, Sodium methanolate
 Hazard statements (CLP) : H226 - Flammable liquid and vapour

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H290 - May be corrosive to metals
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage
H331 - Toxic if inhaled
H370 - Causes damage to organs

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P307+P311 - IF exposed: Call a POISON CENTER or doctor/physician
P370+P378 - In case of fire: Use earth, sand, dry chemical powder or foam for extinction
P402+P404 - Store in a dry place. Store in a closed container

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X (REACH-no) 01-2119433307-44	70	F; R11 T; R23/24/25 T; R39/23/24/25
Sodium methanolate	(CAS No) 124-41-4 (EC no) 204-699-5 (EC index no) 603-040-00-2 (REACH-no) 01-2119519241-51	30	F; R11 C; R34 R14 Xn; R22

Name	Product identifier	Specific concentration limits
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X (REACH-no) 01-2119433307-44	(20 =< C) T; R23/24/25 (3 =< C < 20) Xn; R20/21/22 (10 =< C) T; R39/23/24/25 (3 =< C < 10) Xn; R68/20/21/22

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X (REACH-no) 01-2119433307-44	70	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Sodium methanolate	(CAS No) 124-41-4 (EC no) 204-699-5 (EC index no) 603-040-00-2 (REACH-no) 01-2119519241-51	30	Flam. Sol. 1, H228 Self-heat. 1, H251 Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314

Name	Product identifier	Specific concentration limits
Methanol	(CAS No) 67-56-1 (EC no) 200-659-6 (EC index no) 603-001-00-X (REACH-no) 01-2119433307-44	(10 =< C) STOT SE 1, H370 (3 =< C < 10) STOT SE 2, H371

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Allow the victim to rest. Provide oxygen and/or ventilation assistance, if needed. Do not apply mouth-to-mouth resuscitation. Call a doctor immediately, even if there are no immediate symptoms.

First-aid measures after skin contact : Immediately remove contaminated clothing or footwear. Rinse immediately with plenty of water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist immediately, even if there are no immediate symptoms.

First-aid measures after ingestion : Rinse mouth out with water. Drink plenty of water. Never attempt to induce vomiting. Take medical advice immediately.

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

Symptoms/injuries after inhalation : Breathing difficulties.

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Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Burns. Can cause blindness.
Symptoms/injuries after ingestion	: Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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	: Dry powder. Dry sand. Foam.
Unsuitable extinguishing media	: Water. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. During combustion : Toxic fumes may be released. Carbon oxides (CO, CO ₂).
Reactivity	: Reacts with : Water. May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Contain the extinguishing fluids by bunding. Do not discharge into drains or the environment.
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 measures	: Remove all sources of ignition. Avoid contact of substance with water.
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6.1.1. For non-emergency personnel

Emergency procedures	: Do not breathe vapours. Avoid contact with skin and eyes. Evacuate unnecessary personnel.
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6.1.2. 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".
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6.2. Environmental precautions

Contain the spilled material by bunding. Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

For containment	: In the event of significant spillages : Pump up the product into a suitably labelled spare container. Small spillages: Absorb spillage with: Sand/earth. inert absorbent material. Put into a labelled container and provide safe disposal.
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6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Do not breathe vapours. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking. Earth the equipment. Flame proof, lighting, electrical equipment and ventilation.
Hygiene measures	: Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside.
Storage conditions	: Keep container tightly closed. Store in a dry, cool place. Protect from heat and direct sunlight. Keep in a well-ventilated room.
Incompatible materials	: Acids. Oxidizing materials. Water. air. Oxygen.
Storage temperature	: ≥ 7 °C
Special rules on packaging	: Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methanol (67-56-1)		
EU	IOELV TWA (mg/m ³)	260 mg/m ³
EU	IOELV TWA (ppm)	200 ppm

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Methanol (67-56-1)		
EU	Notes	Skin
United Kingdom	WEL TWA (mg/m ³)	266 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	333 mg/m ³
United Kingdom	WEL STEL (ppm)	250 ppm

Methanol (67-56-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg bodyweight/day
Acute - systemic effects, inhalation	260 mg/m ³
Long-term - systemic effects, dermal	40 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	260 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	8 mg/kg bodyweight/day
Acute - systemic effects, inhalation	50 mg/m ³
Acute - systemic effects, oral	8 mg/kg bodyweight/day
Long-term - systemic effects, oral	8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	50 mg/m ³
Long-term - systemic effects, dermal	8 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	154 mg/l
PNEC aqua (marine water)	15,4 mg/l
PNEC aqua (intermittent, freshwater)	1540 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	570,4 mg/kg
PNEC sediment (marine water)	57,04 mg/kg
PNEC (Soil)	
PNEC soil	23,5 mg/kg
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

Sodium methanolate (124-41-4)	
PNEC (Water)	
PNEC aqua (freshwater)	154 mg/l
PNEC aqua (marine water)	15,4 mg/l
PNEC aqua (intermittent, freshwater)	1540 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	570,4 mg/kg bodyweight
PNEC (Soil)	
PNEC soil	23,5 mg/kg
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

8.2. Exposure controls

Hand protection	: Chemical resistant gloves (according to European standard NF EN 374 or equivalent).
Eye protection	: Safety glasses with side shields (EN 166).
Skin and body protection	: Protective clothing (EN 14605). Safety foot-wear.
Respiratory protection	: breathing apparatus with filter A (EN 14387).
Environmental exposure controls	: Used in closed systems.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless -. yellowish.
Odour	: Alcohol.
Odour threshold	: No data available
pH	: ~ 11
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 6,8 °C

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Freezing point	: No data available
Boiling point	: 92 °C (1013 hPa) (DIN 551 751)
Flash point	: 33 °C (DIN 51 755)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: ~ 34 hPa (20 °C)
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,97 (20 °C) (DIN 51 757)
Solubility	: Water: Hydrolysis
Log Pow	: -0,77 (20 °C)
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 64 - 68 mPa.s (20 °C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Other properties : Reacts with water.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with : Water. May form flammable/explosive vapour-air mixture.

10.2. Chemical stability

Flammable liquid and vapour. May form peroxides.

10.3. Possibility of hazardous reactions

Reacts exothermically with (some) acids. May be corrosive to metals.

10.4. Conditions to avoid

Ignition sources. Air and moisture sensitive.

10.5. Incompatible materials

Water. Acids. air. Oxidizing agent. Oxygen. Light metals.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Sodium hydroxide. Methanol.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Sodium methanolate (30%)	
ATE (oral)	100,000 mg/kg bodyweight
ATE (dermal)	300,000 mg/kg bodyweight
ATE (dust,mist)	0,500 mg/l/4h

Methanol (67-56-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	0,272 mg/l/4h

Sodium methanolate (124-41-4)	
LD50 oral rat	1687 mg/kg bodyweight (OECD 401)
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: ~ 11
Serious eye damage/irritation	: Eye damage, category 1, implicit pH: ~ 11
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)

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Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Causes damage to organs.
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

Methanol (67-56-1)	
LC50 fish	15400 mg/l/96h (Lepomis macrochirus)
EC50 Daphnia	> 10000 mg/l/48h (Daphnia magna)

Sodium methanolate (124-41-4)	
LC50 fish	> 12700 mg/l/96h (Lepomis macrochirus) (Read across)
EC50 Daphnia	> 10000 mg/l/48h (Daphnia magna) (Read across)
ErC50 (algae)	22000 mg/l/96h (Pseudokirchnerella subcapitata) (Read across)

12.2. Persistence and degradability

Sodium methanolate (124-41-4)	
Persistence and degradability	Readily biodegradable. (Read across).

12.3. Bioaccumulative potential

Sodium methanolate (30%)	
Log Pow	-0,77 (20 °C)

Methanol (67-56-1)	
Bioaccumulative potential	Not potentially bioaccumulable.

Sodium methanolate (124-41-4)	
BCF	< 10 (Read across)
Log Pow	-0,75 (25°C) (Read across)
Bioaccumulative potential	not bioaccumulable. (Read across).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Sodium methanolate (30%)	
This substance/mixture does not meet the PBT criteria of REACH, annex XIII.	
This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No	: 1289
UN-No.(IATA)	: 1289

14.2. UN proper shipping name

Proper Shipping Name	: SODIUM METHYLATE SOLUTION
Transport document description	: UN 1289 SODIUM METHYLATE SOLUTION, 3 (8), III, (D/E)

14.3. Transport hazard class(es)

Class (UN)	: 3
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Class (IATA) : 3 - Flammable Liquids

Hazard labels (UN) : 3, 8



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 38

Classification code (UN) : FC

Orange plates :



Transport category (ADR) : 3

Tunnel restriction code : D/E

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

EAC code : •2WE

APP code : A(fl)

14.6.2. Transport by sea

MFAG-No : 132

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : ECHA - European Chemical Agency. CSR (Chemical safety report).

Abbreviations and acronyms : ADR - RID : Agreement on the transport of dangerous goods by road - Regulations on the international transport of dangerous goods by rail.

Training advice : All personnel are trained.

Other information : No experimental study is available on the mixture. Information hereunder are based on our knowledge on components, and classification of the mixture is determined with the calculation method.

Safety data sheet established by : LISAM SERVICES - TELEGIS
17, Rue de la Couture F-60400 PASSEL
Safety Made Easy with www.lisam.com.

Full text of R-, H- and EUH-phrases::

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Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Flam. Sol. 1	Flammable solids, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
Self-heat. 1	Self-Heating Substances and Mixtures, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H228	Flammable solid
H251	Self-heating: may catch fire
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled
H370	Causes damage to organs
R10	Flammable
R11	Highly flammable
R14	Reacts violently with water
R22	Harmful if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R34	Causes burns
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
C	Corrosive
F	Highly flammable
T	Toxic
Xn	Harmful

SDS EU (REACH Annex II)

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