

SAFETY DATA SHEET

GBF Number SDS 60
Prepare Date 05.01.2019
Revision Date 22.01.2022
Revision 2



likitkimya

DENATURED METHYL ALCOHOL

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Denatured Methyl alcohol

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

Identified uses Laboratory chemicals, Manufacture of substances
Not to be used as food!

1.3 Details of the supplier of the safety data sheet

Company Likit Kimya Sanayi Ticaret A.Ş.
Terminal Address Sultanköy Merkez Mah. İncirli Mandıra Cad. No;64
M.Ereğlisi/TEKİRDAĞ/TURKEY
Terminal Telephone 0 282 613 41 38
Official Address Nartanesi Sokak No:16/A Küçükbakkalköy 34750
Ataşehir /İstanbul / TURKEY
Central Office Telephone : 0 216 499 30 00 (pbx)
E-mail : info@likitkimya.com
: onur_evcil@likitkimya.com
: ibrahim_caginda@likitkimya.com
Web site : www.likitkimya.com

1.4 Hazards identification

Emergency First Aid Centere : 112
Poison Information Centere : 114
Company Consultation : 0(282) 613 41 39

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008

Flammable liquids (Category 2), H225
Acute toxicity, Oral (Category 3), H301
Acute toxicity, Inhalation (Category 3), H331
Acute toxicity, Dermal (Category 3), H311
Specific target organ toxicity - single exposure (Category 1), Eyes, H370
For the full text of the H- Statements mentioned in this Section, see section 16.

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2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.
 H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
 H370 Causes damage to organs (/\$/*_ORGAN_SINGLE/\$/).

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P242 Use only non-sparking tools.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 P311 Immediately call to 114 a POISON CENTER .

2.3 Other Hazards

None.

3. Composition/information on ingredients

3.1 Substance

Hazardous ingredients according to REgulation (EC) No 1272/2008

Component	Classification	Concentration
Methanol CAS NO: 67-56-1 EC NO: 200-659-6	Flam. Liq. 2; Acute Tox. 3; STOT SE 1; H225, H301, H331, H311, H370 Concentration limits: >= 10 %: STOT SE 1, H370; 3 - < 10 %: STOT SE 2, H371;	99,85 ≤ C ≤ 100 %
Denatonium Benzoate CAS NO:3734-33-6 EC NO:223-095-2		3gr/100 lt

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For the full text of the H-Statements and R-Phrases mentioned in this Section, see section 16.

4. First Aid Measures

4.1 Description of First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Notes to physician

Dizziness Drowsiness metabolic acidosis Blurred vision Seizures. Coma Blindness death.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Chemical foam, finely dispersed water, air and mechanical foam, CO₂.

5.2 Special hazards arising from the substance or mixture.

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. Accidental release measures

6.1 Personal precautions, Protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities.

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8. Exposure controls/personal protection**8.1 Expose Levels**

ACGIH* TLV-TWA: 200 ppm, skin (262 mg/m³);
 TLV-STEL: 250 ppm, skin (328 mg/m³);
 PEL-TWA: 200 ppm, skin
 PEL-STEL: 250 ppm, skin
 TLV Basis: critical effects: neuropathy, vision,
 central nervous system(CNS)
 IDLH: 6000 ppm, acute inhalation toxicity to animals

8.2 Exposure controls**Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protection equipment:**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

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Break through time: 31 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a) Appearance	Form: clear, liquid Color: colourless
b) Odour	Characteristic smell
c) Odour Threshold	detection: 4.2 - 5960 ppm (geometric mean) 160 ppm recognition: 53 – 8940 ppm (geometric mean) 690 ppm
d) pH	No data available
e) Freezing point	-97,8 °C
f) Boiling point	64,7 °C (101,3 kPa)
g) Flash point	11 °C
h) Solution in water(20° C)	Completely soluble
i) Auto Ignition Temperature	464 °C
j) Explosion limits	6 vol% 36,5 vol%
k) Explosive properties	No data available.
l) Oxidizing properties	No data available
m) Vapour pressure	12,8kPa at 20,0 °C
n) Relative density at 20°C	0,791 g/cm ³

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10. Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Magnesium, zinc alloys, various plastics Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male and female - > 1.187 - 2.769 mg/kg

Remarks: (ECHA) (Regulation (EC) No 1272/2008, Annex VI)

LDLO Oral - Human - 143 mg/kg

Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

LC50 Inhalation - Rat - male and female - 4 h - 131,25 mg/l

Remarks: (ECHA) (Regulation (EC) No 1272/2008, Annex VI)

LD50 Dermal - Rabbit - 17.100 mg/kg

Remarks: (External MSDS) (Regulation (EC) No 1272/2008, Annex VI)

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Remarks: (ECHA) Drying-out effect resulting in rough and chapped skin.

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

Remarks: (ECHA) Irritation of mucous membranes

Respiratory or skin sensitisation

Maximisation Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Did not show carcinogenic effects in animal experiments.

IARC: No component of this product present at levels greater than or equal to 0.1% is

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Reproductive toxicity

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

Causes damage to organs. - Eyes

Acute inhalation toxicity - Irritation symptoms in the respiratory tract.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No aspiration toxicity classification

Additional Information

RTECS: PC1400000

Headache, Dizziness, Drowsiness, narcosis, Blindness, Impairment of vision, irritant effects, Nausea, Vomiting, agitation, spasms, inebriation, Coma

Drying-out effect resulting in rough and chapped skin., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. Ecological Information**12.1 Toxicity**

Toxicity to fish flow-through test LC50 - Lepomis macrochirus (Bluegill) - 15.400,0 mg/l - 96 h

(US-EPA)

Toxicity to daphnia and other aquatic invertebrates

semi-static test EC50 - Daphnia magna (Water flea) - 18.260 mg/l - 96 h

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (green algae) - ca. 22.000,0 mg/l - 96 h

(OECD Test Guideline 201)

Toxicity to bacteria static test IC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 5 d

Result: 82,7 % - Readily biodegradable.

Result: 99 % - Readily biodegradable.

(OECD Test Guideline 301D)

Biochemical Oxygen Demand (BOD) 600 - 1.120 mg/g
Remarks: (IUCLID)

Chemical Oxygen Demand (COD) 1.420 mg/g
Remarks: (IUCLID)

Theoretical oxygen Demand 1.500 mg/g
Remarks: (Lit.)

Ratio BOD/ThBOD 76 %

Remarks: Closed Bottle test(IUCLID)

12.3 Bioaccumulative potential.

Bioaccumulation Cyprinus carpio (Carp) - 72 d at 20 °C - 5 mg/l(Methanol)

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12.4 Mobility in soil

Will not adsorb on soil.

13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport Information

14.1 UN number

ADR/RID: 1230	IMDG: 1230	IATA: 1230
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14.2 UN proper shipping name

ADR/RID	METHANOL (METHYL ALCOHOL)
IMDG	METHANOL (METHYL ALCOHOL)
IATA	METHANOL (METHYL ALCOHOL)

14.3 Transport hazard class(es)

ADR/RID: 3 (6.1)	IMDG: 3(6.1)	IATA: 3(6.1)
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14.4 Packaging group

ADR/RID: II	IMDG: II	IATA: II
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14.5 Environmental hazards

ADR/RID: No	IMDG Marine pollutant: no	IATA: no
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15. Regulatory information

15.1 Labeling in accordance with EC directives: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Assessment of the safety of the chemical substance or mixture:

A Chemical Safety Assessment has been carried out for this substance.

16. Other information

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs (/\$/*_ORGAN_SINGLE\$/).
H371	May cause damage to organs.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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P242 Use only non-sparking tools.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P311 Immediately call to 114 a POISON CENTER .

Further information

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