



Revision date: 01/01/2023

Revision: 09

Supersedes date: 15/10/2015

## SAFETY DATA SHEET

### CHAFERGEL - CHAFING DISH FUEL (ETHANOL GEL)

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.  
According to Regulation (EC) No 1907/2006, Annex II, as amended.  
Commission Regulation (EU) 2020/878 of 18 June 2020.

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

##### 1.1. Product identifier

**Product name** CHAFERGEL - CHAFING DISH FUEL (ETHANOL GEL)

**EU REACH registration notes** Ethanol: 01-2119457610-43-002

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

**Identified uses** Food heater gel.

**Uses advised against** No specific uses advised against are identified.

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

**Supplier** GIZA DIS TIC. ve SAN. KOLL. STI.  
Avrupa Serbest Bolgesi, 5. Sokak, No:7, 59930, ERGENE--TEKIRDAG / TURKEY  
Tel.: + 90 282 691 11 92  
info@giza-group.com

##### 1.4. Emergency telephone number

**Emergency telephone** GIZA GROUP : +90 282 6911192 – office hours

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**Classification (SI 2019 No. 720)**

**Physical hazards** Flam. Sol. 2 - H228

**Health hazards** Not Classified

**Environmental hazards** Not Classified

##### 2.2. Label elements

**Hazard pictograms**



**Signal word** Warning

**Hazard statements** H228 Flammable solid.

**Precautionary statements** P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
P501 Dispose of contents/ container in accordance with national regulations.

##### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.



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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Ethanol</b>		<b>75%</b>
CAS number: 64-17-5	EC number: 200-578-6	
Lists: REACH ANNEX XVII.(40)		
<b>Classification</b>	Flam. Liq. 2 - H225	
<b>Triethylamine</b>		<b>&lt;1%</b>
CAS number: 121-44-8	EC number: 204-469-4	
<b>Classification</b>	Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

**Composition comments** The data shown are in accordance with the latest EC Directives.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air at once. Place unconscious person on their side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration / oxygen. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Keep affected person warm and at rest. Show this Safety Data Sheet to the medical personnel. Never give liquid to an unconscious person.
<b>Skin contact</b>	Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Make sure to remove any contact lenses before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

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

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	Nausea, vomiting. Dizziness.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Severe irritation.



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

**Specific treatments** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish. Dry chemicals, sand, dolomite etc.

**Unsuitable extinguishing media** Do not use water, if avoidable.

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

**Specific hazards** In case of fire: Very toxic gases or vapours.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Hydrogen cyanide (HCN). Nitrous gases (NOx).

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Fight fire remotely due to the risk of explosion. Containers close to fire should be removed or cooled with water. Cool containers exposed to flames with water until well after the fire is out. Contain and collect extinguishing water.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours. Provide adequate ventilation.

### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Keep combustible materials away from spillage. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Move containers from spillage area. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Eye wash facilities and emergency shower must be available when handling this product. Avoid inhalation of vapours. Avoid contact with skin and eyes. Do not wear contact lenses. During application and drying, solvent vapours will be emitted. Provide adequate ventilation.



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### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Store at temperatures between 15°C and 30°C. Store away from the following materials: Oxidising materials. Acids. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.  
Suitable container materials: HDPE; High-density polyethylene. PET; Polyethylene terephthalate. PP; Polypropylene. Polyethylene. Tin plate. Steel.

**Storage class** Flammable solid storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### Triethylamine

Long-term exposure limit (8-hour TWA): WEL 2 ppm 8 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 4 ppm 17 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

#### Ethanol (CAS: 64-17-5)

#### DNEL

Workers - Inhalation; : 1900 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 343 mg/kg/day  
Workers - Inhalation; Long term systemic effects: 950 mg/m<sup>3</sup>  
General population - Inhalation; : 950 mg/m<sup>3</sup>  
General population - Dermal; Long term systemic effects: 206 mg/kg/day  
General population - Inhalation; Long term systemic effects: 114 mg/m<sup>3</sup>  
General population - Oral; Long term systemic effects: 87 mg/kg/day

#### PNEC

- Fresh water; 0,96 mg/l  
- marine water; 0,79 mg/l  
- Intermittent release; 2,75 mg/l  
- Sediment (Freshwater); 3,6 mg/kg  
- Sediment (Marinewater); 2,9 mg/kg

### 8.2. Exposure controls

#### Protective equipment



**Appropriate engineering controls** Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection** Contact lenses should not be worn when working with this chemical. Wear approved safety goggles.



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<b>Hand protection</b>	Wear protective gloves. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. It is recommended that gloves are made of the following material: Nitrile rubber.
<b>Other skin and body protection</b>	Wear apron or protective clothing in case of contact.
<b>Hygiene measures</b>	Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Promptly remove any clothing that becomes contaminated. Take off contaminated clothing and wash it before reuse.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Wear self-contained breathing apparatus. In case of possible exposure to degradation products, use suitable respiratory protection. Wear self-contained breathing apparatus with full facepiece.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Gel.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic.
<b>pH</b>	pH (concentrated solution): 7.5 - 8.5
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	79°C
<b>Flash point</b>	16°C Closed cup.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	Flammable solid
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 3.3 % Upper flammable/explosive limit: 19 %
<b>Vapour pressure</b>	44 mm Hg @ 20°C
<b>Vapour density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Bulk density</b>	0.84 kg/l @ 25°C
<b>Solubility(ies)</b>	Completely soluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	451°C
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	3570 Pa s @ 25°C
<b>Explosive properties</b>	There are no chemical groups present in the product that are associated with explosive properties.
<b>Oxidising properties</b>	There are no chemical groups present in the product that are associated with oxidising properties.

#### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 85 %.



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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** No particular stability concerns.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None known.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid contact with acids. Oxidising agents.

#### 10.5. Incompatible materials

**Materials to avoid** Acids - oxidising.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Toxic gases or vapours. Carbon monoxide (CO). Hydrogen cyanide (HCN). Nitrous gases (NOx).

### SECTION 11: Toxicological information

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

**Other health effects** Does not contain any substances known to be carcinogenic.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

**Skin corrosion/irritation** Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye irritation.

#### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

#### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

#### Genotoxicity - in vivo

Based on available data the classification criteria are not met.



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<b>Carcinogenicity</b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>IARC carcinogenicity</b>	None of the ingredients are listed or exempt.
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Based on available data the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	
<b>STOT - single exposure</b>	Not classified as a specific target organ toxicant after a single exposure.
<b>Specific target organ toxicity - repeated exposure</b>	
<b>STOT - repeated exposure</b>	Not classified as a specific target organ toxicant after repeated exposure.
<b>Aspiration hazard</b>	
<b>Aspiration hazard</b>	Not relevant. Solid.
<b>Inhalation</b>	Gas or vapour in high concentrations may irritate the respiratory system.
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach.
<b>Skin contact</b>	Repeated exposure may cause skin dryness or cracking. Irritating to skin.
<b>Eye contact</b>	May cause eye irritation. Redness. Pain.
<b>11.2. Information on other hazards</b>	
<b>Information on other hazards</b>	No information available.

### Toxicological information on ingredients.

#### **Ethanol**

##### **Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 6200 mg/kg, Oral, Rat

##### **Acute toxicity - dermal**

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 7060 mg/kg, Dermal, Rabbit

##### **Acute toxicity - inhalation**

**Notes (inhalation LC<sub>50</sub>)** LC50 124,7 mg/l, Inhalation, 760 mm Hg, Rat

##### **Carcinogenicity**

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

#### **Triethylamine**

##### **Acute toxicity - oral**

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> 730 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 500.0

##### **Acute toxicity - dermal**

**ATE dermal (mg/kg)** 1,100.0



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### *Acute toxicity - inhalation*

**Notes (inhalation LC<sub>50</sub>)** LC50 3496 ppm, Inhalation, Rat

**ATE inhalation (vapours mg/l)** 11.0

**ATE inhalation (dusts/mists mg/l)** 1.5

## SECTION 12: Ecological information

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Toxicity** Based on available data the classification criteria are not met.

### Ecological information on ingredients.

#### *Ethanol*

### *Acute aquatic toxicity*

**Acute toxicity - fish** LC<sub>50</sub>, 24 hours: 11200 mg/l, Oncorhynchus mykiss (Rainbow trout)  
LC<sub>50</sub>, 96 hour: 13.000 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 5012 mg/l, Ceriodaphnia dubia  
EC<sub>50</sub>, 48 hour: 9.300 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 275 mg/l, Chlorella pyrenoidosa  
EC<sub>50</sub>, 72 hour: 5.000 mg/l, Algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, 4 hours: 5,8 g/l, Paramaecium caudatum

**Acute toxicity - terrestrial** LC<sub>50</sub>, 48 hours: 0,1-1 mg/cm<sup>2</sup>, Eisenia Fetida (Earthworm)

#### *Triethylamine*

### *Acute aquatic toxicity*

**Acute toxicity - fish** LC<sub>50</sub>, 96 hour: 330 mg/l, Fish

**Acute toxicity - aquatic plants** LC<sub>50</sub>, 48 hour: 200 mg/l, Algae

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### Ecological information on ingredients.

#### *Ethanol*

**Persistence and degradability** The substance is readily biodegradable.





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### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

Ecological information on ingredients.

#### Ethanol

**Partition coefficient** log Kow: -0,31

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Absorb in vermiculite, dry sand or earth and place into containers. Empty containers must not be punctured or incinerated because of the risk of an explosion. Do not empty into drains.

## SECTION 14: Transport information

### 14.1. UN number or ID number

**UN No. (ADR/RID)** 1325

**UN No. (IMDG)** 1325

**UN No. (ICAO)** 1325

**UN No. (ADN)** 1325

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)

**Proper shipping name (IMDG)** FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)

**Proper shipping name (ICAO)** FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)

**Proper shipping name (ADN)** FLAMMABLE SOLID, ORGANIC, N.O.S. (ETHANOL)



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### 14.3. Transport hazard class(es)

ADR/RID class	4.1
ADR/RID classification code	F1
ADR/RID label	4.1
IMDG class	4.1
ICAO class/division	4.1
ADN class	4.1

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-A, S-G
ADR transport category	2
Emergency Action Code	1Z
Hazard Identification Number (ADR/RID)	40
Tunnel restriction code	(E)
Limited quantities (ADR)	5 kg

### 14.7. Maritime transport in bulk according to IMO instruments

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

**National regulations**  
Health and Safety at Work etc. Act 1974 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
EH40/2005 Workplace exposure limits.



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<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
<b>Authorisations (SI 2020 No. 1577 Annex XIV)</b>	No specific authorisations are known for this product.
<b>Authorisations (Annex XIV Regulation 1907/2006)</b>	No specific authorisations are known for this product.
<b>Restrictions (SI 2020 No. 1577 Annex XVII)</b>	No specific restrictions on use are known for this product.
<b>Restrictions (Annex XVII Regulation 1907/2006)</b>	No specific restrictions on use are known for this product.
<b>Seveso Directive - Control of major accident hazards</b>	Not relevant.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC <sub>50</sub> : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
<b>Classification abbreviations and acronyms</b>	Flam. Sol. = Flammable solid Eye Irrit. = Eye irritation
<b>Key literature references and sources for data</b>	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> This SDS is prepared based on the information and documents received from product owner. CRAD or/and SDS author shall not be responsible for incorrect prepared of SDS and pecuniary loss or intangible damages because of deficient or wrong information and documents which comes from product owner.
<b>Classification procedures according to SI 2019 No. 720 and Regulation (EC) No. 1272/2008</b>	Flam. Sol. 2 - H228: : Expert judgement.
<b>Revision comments</b>	SDS has been revised under the current regulations.



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<b>Issued by</b>	Bülent Özdemir / CRAD gbf@crad.com.tr
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<b>SDS number</b>	7396
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H228 Flammable solid. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.