

## SAFETY DATA SHEET

*Under Regulation (EC) № 1272/2008 and Regulation(EC) № 286/2011 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)*

**Edition 02**

*Date of issue: May 2019, town of Plovdiv*

<b>1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND COMPANY / ENTERPRISE</b>
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**1.1. Name:**  
**HAND DISINFECTION GEL**

**IGUARD ANTIBATTERICO**

**1.2. Identified uses of the substance or mixture, which are of importance and uses advised**

Gel with bactericide and fungicide effect for hygienic hand disinfection

**1.2. Details of the supplier of the safety data sheet**

**Company:**  
“GGM LTD  
SOFIA 1574  
BULGARIA  
Assen Yordanov blvd 9

**1.3. Telephone number for emergencies**

Toxicology Clinic at MHATEM "N.I. Pirogov " – phone + 359 /02/ 9154409 , + 359 /02/ 9154346, fax + 359 /02/ 9154409  
e-mail:poison\_centre@mail.orbitel.bg  
<http://www.pirogov.net>

## 2. HAZARDS IDENTIFICATION

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

Classification /Regulation (EC) No.1272/2008

Hazard classes and hazard categories:

Flam.Liq. 2 – H225

Eye Irrit.2 – H319

Dangerous for the aquatic environment – 1 – H410

2.2 Label elements:

Labeling according Regulation (EC) No.1272/2008

Pictograms:



Signal word: Danger

Contains: ethyl alcohol

Hazard statements:

H225 – Highly flammable liquid and vapor

H319 – Causes serious eye irritation

H410 – Highly dangerous for the aquatic environment

Precautionary statements:

P102 – Keep out of reach children

P273 – Avoid release to the environment

P310 – If swallowed – call immediately to the Emergency center or contact doctor.

P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other hazards:

None.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1. Mixtures:

Chemical Name	CAS №	EINECS/ ELINCS №	Concentration / Concentration limits / (w/w%)	Classification Regulation (EC) №1272/ 2008	
Ethanol	64-17-5	200-578-6	70.0%	Cat.. 2, H225 Cat.2, H319 Cat.3, H335 Cat.3, H336	
Alcohol ethoxylate /Alcohols, C11-14-iso-,C13-rich,ethoxylated,	-	-	0,003-0, 0147 %	Cat.1; H318 Cat 2, H411	
Cyclohexane	110-82-7	203-806-2	0,0003-0,0027%	Cat. 2; H225 Cat 1; H304 Cat. 2; H315 Cat. 2; H319 Cat 3; H336 Cat 1; H400 Cat 1; H410	

In 100 g of a liquid concentrate containing 70 g of ethanol.

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

**General advice:** If symptoms persist, seek qualified medical help..

**Inhalation: Not applicable.**

**Skin contact:**

**Rinse with plenty water.**

In case of symptoms of skin irritation (e.g. redness) and they continue to seek medical attention.

**Eye contact:** rinse immediately with plenty of drinking water with eyelids open for at least 5 minutes and seek medical attention.

**Ingestion:**

Do not induce vomiting; immediately seek medical attention and show packaging or label

**Rinse the mouth with plenty of water /if only the person is conscious/**

**4.2 Most important symptoms and effects, both acute and delayed:**

**Symptoms – Not applicable**

**Effects - Not applicable**

**4.3 Indication of any immediate medical attention and special treatment needed:**

**In case of ingestion** - immediately seek medical attention.

No specific antidote exist.

Treatment is symptomatic.

## **5. FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media:**

**Flash point: 30<sup>0</sup> C**

Use water spray, alcohol-resistant foam, dry powder, CO<sub>2</sub>

**Unsuitable extinguishing media for safety reasons** – no information available.

**5.2. Specific hazards associated with exposure to the substance or mixture**

**Specific hazards in case of fire – the extinguished material must be insulated. Avoid penetration of used water in environment.**

**5.4. Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective clothing suitable for fighting chemical fires.

After using, clean the protective clothing and equipment.

Additional information - **Not applicable**

<h2><b>6. ACCIDENTAL RELEASE MEASURES</b></h2>
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**6.1. Personal precautions**

Take measures to ensure the supply of clean indoor air.

Work in the affected area shall be terminated affected zone differentiates and denotes; in the area are allowed only employees performing repairs or other work to remove the accident or incident, the number is limited to the minimum necessary. Workers should wear appropriate personal protective equipment.

**6.2. Environmental precautions**

Avoid falling into the environment.

In the event of an accident and / or spillage, take measures for its localization and limitation. Measures should be taken to avoid contamination of surface and groundwater, and soil.

**6.3. Material for cleaning up:** – for small spills - Absorb with an inert material to be placed in tightly closed and designated containers; for large spills to limit the spill using inert materials to assemble and place spillage in tightly closed and designated containers for

temporary storage and then be transmitted to persons holding a permit under Art. 37 of the Law of Waste Management

6.4 Reference to other sections: refer to protective measures, listed in section 8.

## 7. HANDLING AND STORAGE

**7.1. Handling with the substance/ mixture** – in production process to be ensured adequate ventilation; on the workplace to be kept only quantities required for the normal working process; packages/containers must not be left open; to be used in well ventilated rooms; do not breathe vapor / aerosol; Avoid contact with the skin and the eyes.

**7.2. Storage** – Keep away from sources of heat and ignition. Keep out of reach of children. Do not store together with substances and mixtures classified as explosive, toxic, oxidizing, including pyrophoric liquids and organic peroxides, aerosols and compressed or liquefied gas.

**7.3. Specific use** - hygienic hand disinfection.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**8.1. Exposure limits**

**8.2. Exposure controls**

**8.2.1. Control of the exposure in the work environment.**

Limits in air at the workplace, according to Ordinance № 13 on the protection of workers from the risks related to exposure to chemical agents at work:

№	Chemical agent	CAS №	Limit value – 8 hours
187	ethyl alcohol	64-17-5	1000, 0 mg/m <sup>3</sup>

To be ensured adequate ventilation. Avoid contact with eyes. Do not eat, drink or smoke in the workplace.

**Respiratory protection:** no specific remedies under normal use.

In the production and in the absence of effective ventilation the values of ethanol in the air of the working environment to be controlled, and when necessary to use personal protective equipment for respiratory protection.

**Hand protection:** Not necessary in normal use. Prolonged and repeated contact when manufacturing suitable protective gloves must be worn.

**Eye protection:** Avoid contact with eyes. To prevent splashes in the eyes, wear personal protective equipment - close-fitting glasses.

**Skin protection:** To comply with the safety instructions in order to prevent injuries and irritation during use of the product. Comply with the instructions on the label.

**8.2.2. Control of environmental exposure** - Do not release to the environment. In an accident and / or failure to be notified the relevant authorities.

## 9. CHEMICAL AND PHYSICAL PROPERTIES

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

#### 1. Appearance

**Physical state:** viscous gel

**Colour:** colorless, transparent

**Odour:** Light alcoholic

**2. Boiling point:** no data available

**3. Melting point:** no data available

**4. Solubility:** soluble in water and ethanol

**5. Specific weight:** no data available

**6. Flash-point:** 30<sup>0</sup>C

**7. pH directly at 20<sup>0</sup>C:** 7,8

**8. Relative density:** 0,9

**9.2. Other information:** The product is classified as hazardous according to the Regulation on the order and way of classification, packaging and labeling of chemical substances and mixtures on physicochemical properties – Flammable, based on the flash point.

## 10. STABILITY AND REACTIVITY

Stable under normal conditions.

**10.1. Conditions to be avoided** - high temperature.

**10.2. Materials and conditions to avoid** - strong alkalis, acids and oxidizing materials

**10.3. Dangerous reactions:** not known

Hazardous Polymerization: not established.

**10. 4. Hazardous decomposition products** - not known

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Toxicological data (ethanol):**

**Acute oral toxicity:** LD50: 7060 mg/kg

**Acute dermal toxicity:** LD50: 20000 mg/kg

**Acute inhalation toxicity:** The LC50 has not been reached at 60000 ppm at 60 minute test on mice CD -1.

**Skin irritation:** rabbits - no irritation

**Skin sensitizing effects:** no evidence of sensitizing effects

**Eye irritation:** rabbits - moderate irritation

**Mutagenesis:** In vitro studies - negative. Very limited data on mutagenic effects in *in vivo* testing of somatic cells at very high concentrations.

**Carcinogenesis:** no convincing data on occupational exposure  
**Reproductive effects:** no convincing data on occupational exposure  
**Chronic Effects:** damages the liver

**Effects of overexposure:**

**Inhalation:** at high concentrations may cause irritation, dizziness, vertigo, weakness, nausea and vomiting.

**Skin irritation:** if prolonged use – degreasing and drying of the skin dermatitis.

**Eye irritation:** irritation if splashes in the eyes to burning pain.

The product is not classified as dangerous by the conventional method according to the Regulation on the order and way of classification, packaging and labeling of chemical substances and mixtures toxicological properties.

## 12. ECOLOGICAL INFORMATION

**Eco toxicological data (Ethanol):**

**Toxicity to fish:** LC50 of 1, 24, 48, 72 and 96 hours from 13480 to > 18000 mg/l

**Toxicity to aquatic invertebrates:**

**Daphnia magna:** LC50 / 48 hours / - 12340 mg / l

**Toxicity to algae:** Selenastrum capricornatum 96 hours - 10000 mg/l

**Biodegradation:**

Biodegradable

**Bioaccumulation potential**

Not bioaccumulative

**Additional information:**

Do not allow discharge into surface water, ground water, soil and sanitation.

The product is not as classified as dangerous by the conventional method according to the Regulation on the order and way of classification, packaging and labeling of chemical substances and mixtures eco toxicological properties.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment:** The Waste from biocide preparation, as residual quantities and packages are collected in special tightly closed containers labeled, stored temporarily, and then be submitted to persons holding a permit under Art. 37 of the Law of Waste Management

## 14. TRANSPORT INFORMATION

**General:** When transporting on long distances to consider the requirements of p. 10 also,  
HAZARD CLASS – 3  
TRANSPORTATION ACCORDING APPENDIX II MARPOL 73/78 AND IBC



Transport symbol:  
Classification 3.3

**IATA/CAO**

UN № 1170  
Proper Shipping Name: ethanol solution (mixture)  
Hazard Class: 3  
Packing group: III  
ERG code: 3 L

**IMDG**

UN № 1170  
Proper Shipping Name: ethanol (ethyl alcohol) (mixture)  
Hazard Class: 3  
Packing group: III  
EmS: F-E, S-D

**RID**

UN № 1170  
Proper Shipping Name: ethanol (ethyl alcohol) (mixture)  
Hazard Class: 3  
Packing group: III  
Classification code: F 1  
ADR/RID - label 3

**ADR**

UN № 1170  
  
Proper Shipping Name: ethanol (ethyl alcohol) (mixture)  
Hazard Class: 3  
Packing group: III  
Classification code: F 1  
ADR/RID Hazard identification number 30  
ADR/RID limited quantity 5 L



## 15. REGULATORY INFORMATION

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

**The Ordinance for prevention of major accidents involving dangerous substances and limit their consequences.**

Law on Environmental Protection and Regulations for the prevention of major accidents involving dangerous substances and limit their consequences KOE.

### 15.2. Chemical safety assessment

No data.

## 16. OTHER INFORMATION

**The full text of H-applications mentioned in section 2 and 3.**

H22 Flammable.

H304 Inflammable

H319 Irritating to eyes.

H315 Skin irritation

H318 Risk of serious eye damage.

H336 Vapors may cause drowsiness and dizziness

H400 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H410 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.