

# Safety Data Sheet

"Regulation on Information Forms on Hazardous Substances and Mixtures  
(Official Gazette on 13.12.2014 and Official Gazette on 29204) and (EU) 1272/2008

## CLARK PLUS HAND ALCOHOL BASED ANTIBACTERIAL HAND CLEANING SUBSTANCE

Version: 1.0  
Form No: MSDS/ 901

Print Date : 24.03.2020  
Revision Date : 7.4.2020

### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

**Product Name** CLARK PLUS HAND ALCOHOL BASED  
ANTIBACTERIAL HAND CLEANING SUBSTANCE  
**SDS No** MSDS/ 901

#### 1.2 Relevant Identified Uses Of The Product And Uses Advised Against

**Relevant Identified Uses** Alcohol Based Hand Hygiene, Biocidal product  
**Uses Advised Against** No data available

#### 1.3 Details Of The Supplier Of The Safety Data Sheet

**Supplier (Manufacturer)** Eko-Kim Temizlik Ürünleri San.ve Tic.Ltd.Şti.  
**Address** Pelitliköyü Sanayi Sokak No: 30 Pk. 203 Gebze-Kocaeli  
**Telephone** +90-262-751 11 69 Pbx  
**Company Web Page** [www.eko-kim.com](http://www.eko-kim.com)

#### 1.4 Details Of The Manufacturer Of The Safety Data Sheet

**Supplier (Manufacturer)** Eko-Kim Temizlik Ürünleri San.ve Tic.Ltd.Şti.  
**Address** Pelitliköyü Sanayi Sokak No: 30 Pk. 203 Gebze-Kocaeli  
**Telephone** +90-262-751 11 69 Pbx  
**Fax** +90-262-751 21 28  
**E-Mail** [hakoba@eko-kim.com](mailto:hakoba@eko-kim.com), [www.eko-kim.com](http://www.eko-kim.com)

#### 1.5 Information Providing Authority About Safety Data Sheet

Hülya AKOBA – Kimyager

#### 1.6 Emergency Telephone Number

**Company Emergency** +90-262-751 11 69 Pbx

*Warning: This product should not be used in applications other than those mentioned above without the recommendation of the supplier prior to application.*

### 2. HAZARDS IDENTIFICATION

#### 2.1. Classification According to Regulation (ON<sup>1</sup>.-11.12.2013- 28848)

Flam. Liq. 2  
H225 Eye Irrit. 2  
H319

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### 2.2. Label Elements

#### 2.2.1. Labeling According to Regulation (RG.-11.12.2013- 28848)

#### Hazard Pictograms



**Signal Word** Danger

#### Hazard Statement(s)

**H225** Highly flammable liquid and vapour.  
**H319** Causes serious eye irritation.

#### General

#### Intervention

**P210** Keep away from heat / sparks / flames / hot surfaces. -No smoking.  
**P243** Statik boşalmaya karşı önleyici tedbirler alın.  
**P242** Use only non-flammable tools.  
**P280** Wear protective gloves / protective clothing / eye protection / face protection.

#### Response

**P305+P351+P338**

**IF IN EYES:** Rinse carefully with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing..

**P370+P378**

**For extinguishing in case of fire;** use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**P303+P361+P353**

**IF IT IS IN CONTACT WITH LEATHER;** Take off all contaminated clothing immediately. Rinse your skin with water

**P305+P351+P338**

**IF IN EYES:** Rinse carefully with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing

#### Storage

-

#### Disposal

**P501**

**Dispose of containers and contents according to local and national regulations by licensed recycling or in appropriate waste sites.**

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### Supplemental Hazard Information (EU) Statements

2.3. Additional Information  
No information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Description Of The Substance

The compound product

### 3.2 Hazardous ingredients

NAME	EINECS <sup>2</sup> NO- CAS <sup>3</sup> NO.	CONTENT %	CLASSIFICATION CLP
Glycerin	200-289-5 56-81-5	%0,5	-----
Deionized Water	7732-18-5 231-791-2	55-45	Hazard has no chemical classification.
Ethyl Alcohol	200-578-6 64-17-5	% 58-63	Flam. Liq. 2 H225
Propan-2-ol	200-661-7 67-63-0	%10-12	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

### 3.2.1 Additional information

M-Factor: Not Specified  
Specific Concentration Limits: Not Specified

### 3.2.2 Additional warnings:

All the explanations for damage related to the subject are given in Chapter 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.1.1 General information

Show this safety data sheet to the doctor in attendance.  
All do not leave the wounded alone  
Get medical attention immediately and show this safety data sheet to the doctor.  
Splashes of fluid can cause serious burns to the eye.  
Do not give anything by mouth to an unconscious person.  
Take off contaminated clothing immediately.

#### 4.1.2 Following inhalation

If you are exposed to a significant amount, consult a physician.  
If it is not in the patient's well-informed position, bring the patient to an appropriate position and consult a doctor.

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*If fumes or combustion products are inhaled, remove the patient from the affected area, deposit, keep warm and rest. Prosthetics, such as dentures, may occlude the airway and should be removed before beginning the first aid if appropriate. If respiration is stopped, apply artificial respiration, preferably a respiratory mask (air respirator for poisoned persons.*

*Remove the patient from the source it was exposed to and bring it to fresh air. Prostheses, such as dentures, can clog the airway and, where appropriate, should be removed before starting first aid. If breathing is difficult, provide respiratory support or connect to the breathing apparatus. If breathing is stopped, administer artificial respiration, preferably a demand valve (demand-valve) resuscitation mask, balloon mask system (bag-valve mask) pocket mask system should be used.*

### 4.1.3 Following skin contact

*Immediately remove eyelids and rinse eyes with running water immediately. The eyelids should be kept open and frequently the lower and upper lid should be lifted to ensure that all eyes are washed thoroughly. Get to the hospital or doctor without losing time. Contact lenses should only be removed by qualified personnel after injury from blindfolds.*

*Dirty clothes and shoes are removed. The affected area is washed with soap or plenty of water until all chemical is removed (about 15-20 minutes). Take off contaminated clothing and shoes immediately. Get medical attention if symptoms increase.*

### 4.1.4 Following eye contact

*Immediately separate the eyelids and wash the eyes with running water immediately. The eyelids should be kept open and the lower and upper eyelids removed frequently to ensure that all sides of the eye are thoroughly washed.*

*Continue eye wash until you are told to stop by the Poison Information Center or doctor, or for at least 15 minutes.*

*Get to the hospital or doctor without wasting time.*

*Contact lenses should only be removed by authorized personnel after injury to the eyes.*

### 4.1.5 Following ingestion

*Do not try to vomit the exposed person.*

*Danger of breathing. Spontaneous vomiting may occur when swallowed, but do not induce vomiting. If vomiting comes in, keep the head under the hips and prevent them from going to the lungs. Never give anything to the conscious person Wash your mouth with plenty of water.*

*If there is an unexpected situation, seek medical attention.*

**DO NOT ALLOW VOMITING.**

*First, consult the Poison Information Center or doctor for advice. If vomiting occurs, tilt the patient forward or lean on his left side to open the airway and prevent the vomit from being*

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*aspirated (head down, if possible) Do not give anything by mouth to an unconscious patient.*

### 4.1.6 Self-protection of the first aider

- Take precautions applied to general chemistry

### 4.1.7 Notes for the doctor

- Treat symptomatically.

### 4.2 Significant Signs and Implications of Acute and Postdose

*In case of inhalation There is no danger identified.*

*Skin Based There is no danger identified.*

*Damage to the Eye There is no danger identified.*

*(Digestion) Ingestion Harmful if swallowed.*

### 4.3 First Signs for Medical Intervention and Special Treatment Needs

*There is no danger identified.*

## 5. FIRE FIGHTING MEASURES

### 5.1 Fire extinguishers:

*Suitable Extinguishing Media Carbon dioxide, dry powder and foam.*

*Media*

*Incompatible Extinguishing Media Water jet*

*Other Explanations*

*No information*

### 5.2 Special Losses Resulting from Article or Mixture:

*Losses Related to Thermal decomposition or combustion products may contain the following*

*Combustion materials: Harmful gases or vapors.*

*Losses Related to Type No information*

*Explosion*

*Losses related to reactivity No information*

*reactivity*

*Other Explanations No information*

### 5.2 Special Losses Resulting from Article or Mixture:

*Losses Related to Prevent fire fighting water from entering into laceration or water pipes.*

*Combustion*

*Losses Related to Type No information*

*Explosion*

*Losses related to reactivity No information*

*reactivity*

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*Other Explanations No information*

### 5.3 Recommendations for Fire Fighting Squads:

*Fire Fighting Instructions No information*

*Protective Equipment for Use a scuba breathing apparatus when handling fire.*

*Fire Fighting Personnel Containers should be kept cold by spraying with water.  
Do not use pressurized water*

*Other Explanations Notify the authorities in large fires that can not be controlled. We cool the packages in the fire area with water.  
Responsible personnel during fire fighting should wear respiratory equipment and chemical protective clothing. Wear self-contained breathing apparatus with positive pressure self-contained breathing apparatus and appropriate protective clothing. Firefighter uniforms (including helmets, protective boots and gloves) conforming to the European standard EN469 will provide a level of protection for chemical accidents.*

### 5.4 Other informations

*Avoid polluting the environment by using more fire extinguishers than necessary.  
Fire fighting residues should not be allowed to reach sewage and groundwater.*

## 6.ACCIDENTAL AGRICULTURAL PREVENTION

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

*Exposure controls and personal protective measures as described in section 8.  
Protective equipment: Eye protection equipment tested and approved in accordance with standards such as NIOSH (US) or EN 166 (EU); Nitrile Rubber gloves with a layer thickness of minimum 0,11 mm and absorption time of minimum 480 minutes; According to the workplace, depending on the amount and concentration of the dangerous substance, protective clothing; Use respiratory devices and equipment that have been tested and approved to relevant official standards, such as NIOSH or CEN.*

#### 6.1.1 For Non Emergency Personnel

*Protective Equipment Use personal protective equipment. Use appropriate protective equipment to prevent skin, eyes, and personal clothing from contamination.  
See the eighth section of this form.*

*Emergency Procedures Do not inhale the gases from the explosion and the fire.  
Provide adequate ventilation.  
The danger of slipping is due to the product that is flowing.  
Consult an expert for emergency procedures*

*Other Explanations Do not touch or touch the product until all safety precautions have been thoroughly read and understood.*

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### 6.1.2 For Persons Interfering in an Emergency

Protective Equipment	Clean up spills immediately and remove wastes safely. If the product is soluble in water, dilute it with distilled water and clean it by absorbing it. Alternatively, if not water-soluble, absorb debris with an inert, dry material and place in a suitable waste disposal container. Contaminated absorbent material may present similar hazards, such as in spilled material. Label the containers containing waste and contaminated materials and remove them from the area as soon as possible. Wash contaminated area with plenty of water. Once you have a crush, clean yourself up. If safe, leave small amounts of evaporation to evaporate.
Emergency Procedures	Take a safe zone with a staff. Be careful that vapor accumulation can reach explosive density. Steam can accumulate near the ground.
Other Explanations	Make sure that the staff thoroughly understands all safety precautions.

### 6.2 Environmental Precautions:

If there is no safety hazard, avoid further leakage and spillage.  
Do not mix with sewer / surface water / underground water.  
Inform the authorities in case of contamination of waterways or sewers, inform the authorities.

### 6.3 Methods and Materials for Conservation and Cleaning:

Comply with local regulations.  
Place the contaminated material in a suitable container and dispose of according to item 13.

### 6.4 Other Information:

Comply with local regulations.

### 6.5 References to Other Departments:

Information on safe handling is obtained from Chapter 7.  
Information on personal protective equipment is given in section 8.  
Information on liquidation is obtained from Chapter 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Regarding the precautions to be taken in workplace and workplace with hazardous chemicals to ensure health, safety and environment protection, in the Official Gazette dated 12.8.2013 and numbered 28733,  
According to Article 7 of the Regulation, work procedures and organizational measures should be carried out in accordance with the provisions, care should be taken to plan work procedures

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*in the workplace and to take organizational measures.*

*Avoid accumulation in gaps and potholes. DO NOT enter enclosed areas without controlling the concentration in the environment. DO NOT ALLOW MATERIALS TO CONTACT PEOPLE WITH FOOD AND FOOD EQUIPMENT. Avoid contact with incompatible materials. DO NOT USE EAT, DRINK AND SMOKING while you are using it. Store containers securely sealed when not in use. Prevent the containers from being damaged. Always wash hands with soap after use. Work clothes must be washed separately before use again. Use good working methods when using. Note the manufacturer's storage and use recommendations. To ensure a safe working environment, ambient air must be regularly checked for exposure standards. Industrial hygiene standards must be adhered to in order to prevent ingestion of chemicals, skin and skin contact. Avoid contact with the eyes. Do not breathe vapor. Store away from sources of ignition. Do not smoke*

*Information on safe handling is obtained from Chapter 7.*

*Information on personal protective equipment is given in section 8.*

*Information on liquidation is obtained from Chapter 13.*

### **7.1.1 General Handling Recommendations:**

#### **7.1.1.1 Warnings for Safe Handling**

##### Custom Rules for Manual Handling

*Take care not to disturb the integrity of the product with proper transport technique.*

##### Warnings for fire and explosion protection:

*Keep fire fighting equipment ready.*

#### **7.1.1.2 Warnings Regarding Disputes of Substance or Mixtures**

*We take the necessary precautions to prevent the handling of substances or mixtures which do not conform to the specifications.*

#### **7.1.1.3 Environment Related Alerts**

*Notify authorities and inform authorities if water or sewerage is involved. Do not mix with sewer / surface water / underground water.*

#### **7.1.1.4 Additional Notices**

*We take precautions to avoid damage to the original packaging / storage media.*

### **7.1.2 Recommendations for General Occupational Hygiene:**

*Industrial hygiene standards must be adhered to in order to prevent ingestion of chemicals, skin and skin contact. After work with your hands plenty of water and soap*

*Wash. Make sure that there is good ventilation at work. Smoking, eating and drinking should be prohibited in the application area. Contaminated clothing and protective equipment must be removed before entering the eating areas.*



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### 7.2 Conditions for Safe Storage Including Conflicts:

**Technical Measures** The tank should be cleaned regularly, ventilation system, temperature and humidity controls should be done regularly.

**Storage Conditions** Store it in your original package.  
Smoking, eating and drinking should be prohibited in the environment.  
Warehouse must be dry and cool.  
Good ventilation.

**Common Storage Terms** Keep away from food, drink and animal feeding areas.  
Keep away from open fire sources, sparks and heat.  
You are in compliance with the general rules of chemicals used in storage.

**Maximum Storage Time** No information

**Incompatible Materials** No information

### 7.2.1 Advice on general occupational hygiene

- Do not to eat, drink and smoke in work areas;

### 7.3 Specific End uses:

Take precautions to be taken in end-use areas given in Section 1.2.

## 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Isopropyl Alcohol [ EC 200-661-7, Cas No 67-63-0] TWA4 (8 h) 983 mg/m<sup>3</sup>, 400ppm, STEL5 (15 min ) 1230 mg/m<sup>3</sup>, 500ppm; WES(Workplace Exposure Standards) Ethyl alcohol [EC 200-578-6, Cas No 64-17-5] 1900 mg/m<sup>3</sup>

### 8.1.1.1 Occupational Exposure Limit Values (RG.-12.08.2013-28733) According to the Regulation on Health and Safety Precautions in Chemical Ingredients:

No data available

### 8.1.1.2 Occupational Exposure Limit Values (RG.-12.08.2013-28733) According to the Regulation on Health and Safety Precautions in Chemical Ingredients:

No data available

### 8.1.1.3 Other Occupational Exposure Limit Values:

No data available

### 8.1.2 Other biological limit values

### 8.1.3 Information on the monitoring procedures currently recommended, at a minimum, for the substance most similar to the substance concerned

No data available

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**8.1.4 Occupational exposure limits and / or biological limit values applicable for the preparation of the substance or mixture for which it is used:**

No data available

**8.1.5 In cases where the control band approach is used to decide on risk management measures for specific uses, sufficient information to provide effective risk management and the context and limitations of the specific control band advice:**

No data available

**8.1.6 Environmental exposure controls**

Where the employer is eligible to avoid the risk of exceeding the occupational exposure limit values of the product;

- According to the "Regulation on health and safety precautions during work with carcinogenic and mutagenic substances" (RG.-06.08.2013-28730) and
- "Health and Safety Precautions During Chemical Ingredients Study

According to the Regulation "(RG-12.08.2013-28733)

Carry out studies that will enable workers to assess risks related to safety and health resulting from substance or mixture.

Ensure that the working environment is well ventilated and cleaned and that appropriate measures taken to avoid exceeding the occupational exposure limit values of the product

Equipment to be used in places where personal protection is required and appropriate protection methods are to be provided in the "Personal Protective Equipments in Workplaces" number 28695 dated 02.07.2013

Regulation "and" Personal Protective Equipment Regulation "dated 29/11/2006 and numbered 26361. Make sure that personal protective equipment is used in accordance with applicable regulations and requirements.

Set up the air filtration system according to NIOSH and CEN systems in the required areas.

Design the application area to prevent contamination of the product.

Review Chapter 7.

**8.1.7 Personal Protective Measures (Personal Protective Equipment / Equipment):**

**8.1.7.1 General Protection and Hygiene Measures:**

Use only in well-ventilated areas.

Keep away from foodstuffs, beverages and animal fodder.

Remove contaminated, contaminated clothing immediately.

**8.1.7.2 Eye / Face Protection:**

For eye protection use safety goggles that have been tested and approved in accordance with applicable governmental standards, such as NIOSH (US) or EN 166 (EU).



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### 8.1.7.3 Skin Protection:

#### 8.1.7.3.1 Protection of hands:

Use protective gloves. The most suitable gloves should be selected in consultation with the glove dispenser / manufacturer, which can give information on the puncture time of the glove material. To protect against chemicals, gloves must comply with TS / EN 374 Standard. Check that gloves continue their protective properties according to the manufacturer's instructions, and if any deterioration is detected, replace gloves as soon as possible. It is recommended that the gloves be changed frequently. When used for mixtures, the duration of protection of gloves is not known precisely. It is recommended that the gloves be made of these materials: Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC).

#### 8.1.7.3.2 Protection of the body:

Protective cream and skin cleansing cream can be used. Use chemical protective boots, eg rubber.

#### 8.1.7.4 In case of vapor formation, use approved respirator with filter.

If breathing apparatus is the only means of protection, use full face air-assisted breathing apparatus. Use respiratory equipment that has been tested and approved in accordance with applicable national standards such as NIOSH (US) or CEN (EU). If necessary, wear respirator conforming to EN 143.



#### 8.1.7.5 Thermal Losses:

Pay particular attention to the construction of personal protective equipment when indicating protective equipment to be worn for thermal damaged materials.

#### 8.1.8 Environmental Exposure Controls:

The obligations under existing legislation for the protection of the environment must be fully fulfilled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Important health, safety and environmental information

#### 9.2 Appearance

Form/Physical state	Fluid liquid
Color	Clear
Odor	Characteristic

#### 9.3 Safety relevant basic data

pH (20°C)	8,5-10,5
Boiling point/range (°C)101,3 kPa	No data available
Meting Range (°C)	No data available
Flash Point (°C)closed cup	~ 23°C

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Lower Explosion Limit (as volume and in air)	Not applicable.
Upper Explosion Limit (as volume and in air)	Not applicable.
Ignition temperature (°C)	Not flammable (It was not classified as an explosive.)
Vapour pressure (mbar) @ 20°C	No data available
Molecular Weight	No data available
Solubility in water(mg/l) @ 20 °C	No data available
Density @ 20°C (gr/ml)	0.80-0.99
Specific Gravity (Water=1)	No data available
Oxidation Property	No oxidizing property
Viscosity @ 20°C (mPas)	No data available
Solubility in water	Fully Soluble

**Note :** The above properties are determined according to the methods prescribed in Annex-1 Part A of the Annex-I Regulation on Test Methods to be Applied in Determination of the Physico-Chemical, Toxicological and Ecotoxicological Properties of the Materials and Mixtures, or other comparable method.

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Reacts with acetic anhydride, strong oxidizers, perchloric acid, perchlorates, sulfuric acid and permanganates, acetaldehyde, hydrochloric acid.

#### 10.2 Chemical stability

Stable at temperature and pressure under normal ambient conditions and foreseen storage and handling conditions

#### 10.3 Hazardous Decomposition

Reacts with acetic anhydride, strong oxidizers, perchloric acid, perchlorates, sulfuric acid and permanganates, acetaldehyde, hydrochloric acid

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**10.4 Conditions to Avoid:** *(The temperature at which hazardous reactions may occur is under the conditions to avoid such as pressure, light, shock, etc.):*

- The flame is kept away from the source of sparks

**10.5 Substances to be avoided:** *(Conditions relevant to water, air, acids, bases, oxidizing agents or any other special substances which may cause a hazardous reaction):*

- Metal oxides and halogens

**10.6 Hazardous decomposition products**

May generate toxic gases.:

Chance to turn into unstable products by No data available  
decay

The need for stabilizers and the No data available  
availability of stabilizers

Potentially hazardous exothermic reaction No data available

If so, the change in physical appearance No data available

In case of contact with water, if any, No data available  
harmful decomposition products

Hazardous products No data available

Hazardous polymerisation products No data available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 General Information

This chapter mainly contains information created for use by health professionals, occupational health and safety specialists and toxicologists.

A brief but complete and understandable description of the various toxicological (health) effects and the available information used to determine these effects includes information where appropriate, including toxicokinetic, metabolism and distribution.

The information in this section is consistent with the classification of the substance or mixture.

Ethyl alcohol LD50 Oral (İnh): 3632 mg/kg(mouse)

Isopropyl Alcohol: 3600 mg/kg (mouse)

#### 11.1.1 Acute toxicity

No data available

#### 11.1.2 Skin corrosion/irritation and Eye damage/irritation:

→ No data available

#### 11.1.3 Severe Eye Damage / Irritation

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→ There is no known corrosive and irritant effect.

### 11.1.4 Respiratory or Skin Sensitivity

→ There is no known sensitization effect.

### 11.1.5 Mutagenesis

→ There is no known adverse effect.

### 11.1.6 Carcinogenicity

→ As stated in 29 CFR 1910.1200 (Risk Statement), this product does not contain carcinogens, as listed by NTP, IARC or OSHA.

### 11.1.7 Reproductive Toxicity

→ No data available

→ There is no information on Specific Target Organ Toxicity-Single Exposure.

### 11.1.9 Specific Target Organ Toxicity-Repeated Exposure

→ Specific Target Organ Toxicity - There is no information on Repeated Exposure.

### 11.1.10 Aspiration Disease

→ No data available

### 11.2 Classes of Harmfulness, Information for Differentiation or Impact

→ No data available

### 11.3 Damage Information Provided by the Material to the Market

→ No data available

### 11.4 Information on Test Data

→ No data available

### 11.5 Supporting Additional Information on Classification Criteria

· No data available

### 11.6 Information on Possible Exposure Routes

Inhalation There is no known danger. In Skin There is no known danger. Damage to the Eye There is no known danger.

(Digestive) In case of Harmful if swallowed.  
ingestion

Target Organs There is no known danger.

Medical Symptoms There is no known danger.

Medical Alerts Treat according to the instructions.

### 11.7 Information on Physical, Chemical and Toxicological Properties

To the best of our knowledge chemical, physical and toxicological properties have not been fully

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investigated.

### 11.8 Chronic Impacts of Delayed or Immediate Implications on Patient's Short and Long-Term Exposure

No data available

### 11.9 Interactive Effects

The interaction effects of each substance in the product have not been fully investigated.

### 11.10 Absence of Private Data

No special data available.

### 11.11 Mixture and Substance Comparison Information

No data available

### 11.12 Other Information

No data available

### 11.13 Additional toxicological information:

The toxicological classification was made based on the content information and available information.

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity:

The information given in this section pertains to the information on the components and to the ecotoxicity of similar substances.

#### 12.1.1 Acute Toxicity:

Ethyl alcohol Daphnia 1000 mg/l  
Isopropyl Alcohol Daphnia 100000mg/l (96 sa)

### 12.2 Persistence and degradability:

Potential for Retention in Relevant Environmental Environments	No data available
Relevant Environments, Biodegradable Potential	No data available
Potential for degradation by other processes such as oxidation or hydrolysis	No data available
Decay Related Half Life	No data available
Impact on Wastewater Treatment Plants	The product; the possible effect on wastewater treatment facilities is not known as there is no information on whether micro organisms have suppressive effects

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on their activities.

In aquatic environments, acidic products can change the pH value of the water and phosphate can be permanent in aquatic environments indefinitely. It shows phosphate fertilizer effect in water, causing algae and algae increase. The product; Since microorganisms have a suppressive effect on their activities, the possible impact on wastewater treatment plants is unknown.

12.

### 3 Bioaccumulative potential:

The product has potential to accumulate in the biological environment (biota) No data available

Potential of product passing through food No data available

Log Kow veya BCF değeri environmental distribution No data available.

12.

### 4 Mobility in Soil:

Liquid

When determining environmental mobility, take into account the chemical and physical properties of the product (see Chapter 9)

Surface tension No data available.

Water Threat Class No data available.

Drinking Water Impact No data available.

Environmental known or estimated distribution No data available.

### 12.5 Results of PBT<sup>6</sup> and vPvB<sup>7</sup> assessment

This substance / mixture does not contain components which are considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other Negative Effects:

Ozone Layer Thinning Potential No data available

Potential for photochemical ozone generation No data available

Endocrine disruptive potential evaluation of wastewater treatment plants No data available

Global Heating (Greenhouse Effect) Potential No data available

Other Negative Effects on the Environment and / or Environmental Behavior (exposure) It is possible that non-specialists may damage the environment if handled or discarded. Persistent, toxic effect in the



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<b>Bioaccumulation Potential :</b>		aquatic environment.
Biological environment (biota) accumulation potential	Potential - nutrients pass through	Bioaccumulation potential is unlikely.
Reference Values - Log $K_{ow}$ , $S_w$ and $BCF^8$		No data available
<b>12.7 Additional information</b>		
Measures against spreading to the accident area, transportation and disposal of waste See sections 6, 7, 13, 14 and 15 for more information.		

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Product / Packaging disposal

Waste and used packaging must be disposed of in accordance with official regulations.

- Prevent ground and underground waters, drinking water sources, standing and flowing water from mixing with sewerage.

#### 13.2 Contaminated packaging

- The product must be disposed of in accordance with official regulations.
- Do not allow the product to be packaged and disposed of with the household garbage. It is strictly forbidden to mix the product with sewerage and groundwater.
- In such cases, notify the authorities. It must be subjected to special treatment taking into account the instructions of the official authorities.



#### 13.3 European Waste Catalog and Hazardous Waste List Number:

- The identification of waste identification numbers / waste definitions should be made according to the EWC as specific to industry and processes.

#### 13.4 Uncleaned Packages:

- Empty the remains ,Destroy as unused product, You empty the remains. Dispose of as unused product Do not burn or burn light barrels or use cutting tools that generate light or generate sparks.

#### 13.5 Recommended Cleansing Material:

Regulatory requirements regarding the reuse or disposal of used packaging materials must be observed.

#### 13.6 Additional Information:

See national and international legislation on waste, Do not dispose of the product without checking the waste regulations, For safe handling methods, see Chapter 7.

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### 14. TRANSPORT INFORMATION

UN 1170- ETHANOL (ETHYL ALCOHOL) or  
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

	ADR <sup>9</sup> /RID <sup>10</sup>	ADNR <sup>11</sup>	IMDG <sup>12</sup>	ICAO <sup>13</sup> /IATA <sup>14</sup>
<b>TRANSPORTATION</b>	HIGHWAY	RIVER CHANNEL	SEAWAY	AIRLINE
<b>14.1. UN/ID No.</b>	1170	1170	1170	1170
<b>14.2. PROPER SHIPPING NAME</b>	UN 1170- ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)			
<b>SYMBOL</b>				
<b>14.3. CLASS</b>	3	3	3	3
<b>14.4 PACKAGING GROUP</b>	II	II	II	II
<b>LABELLING NO</b>	3	3	3	3
<b>CLASSIFICATION CODE</b>	80	-		
<b>HAZARD NO (HIN NO)</b>	-	-		
<b>PASSENGER &amp; CARGO AIRCRAFT MAXIMUM NET QUANTITY</b>				
<b>14.5 EmS</b>			F-E;S-D	
<b>14.6 MARINE Pollutant</b>			No	

**Road Transport Notes:**

The product does not have international regulations on the transport of dangerous goods (IMDG, IATA, ADR / RID). A warning sign for transport is also not required.

### 15. REGULATORY INFORMATION

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

- Product; Classified and labeled according to the procedures and principles stipulated in the "Regulation on the Classification, Labeling and Packaging of the Products and Mixtures" and "in the EU legislation"
- Examine the following regulations for other national measures that may be relevant to legislation or interest for the implementation of the provisions of this safety data sheet.
- Regulation on Safety Data Sheets for Hazardous Substances and Mixtures
- Regulation on the Classification, Labeling and Packaging of Matter and Mixtures
- Regulation on the Restriction and Prohibition of Hazardous Substances and Mixtures
- Law on Occupational Health and Safety
- Regulation on Health and Safety Precautions in Carcinogenic and Mutagenic Activities

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- Regulation on Health and Safety Precautions in Working with Chemical Substances
- Regulation on the Use of Personal Protective Equipment in Workplaces
- Hand Carrying Works Regulation
- Waste Management Regulation
- Regulation on the Prevention and Reduction of Major Industrial Accidents

### 16. OTHER INFORMATION

#### 16.1 Other information

This document has been prepared and documented in accordance with the provisions of Regulation (EC) No 1907/2006 (REACH) and ISO 11014-1, "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" dated December 13, 2014 and approved.  
Expert Accreditation No: TÜV/11.09.01

#### 16.2 Related Person

Hülya AKOBA

#### 16.3 Reason of re-issue

- First issue

#### 16.4 Relevant , H (number and full text):

**H226** Flammable liquid and vapour

**H319** Causes serious eye irritation

**H336** May cause drowsiness or dizziness

#### 16.5 Classification For Mixtures And Used Evaluation Method According To ;

December 13, 2014 and 29204 were regulated according to the regulation.

#### 16.6 Explanations on the Methods of Classification of Hazardous Dissatisfaction (Which of the methods of assessing the information set out in Article 11 of the Regulation on Classification, Labeling and Packaging of Materials and Mixtures are used for classification purposes)

#### 16.7 Other Topics:

- Contact our sales department for suggestions on safe use of the product.
- Contact our sales department for recommended limitations on the use of the product and for non-legal recommendations.
- It is advisable to obtain appropriate training for workers to read and use safety data sheets and labeling information in a clear way, in order to protect the human health and environment against product exposure and general safety culture.
- Key information sources used in the arrangement of this safety data sheet;
  - Safety Information Form / Forms prepared by the manufacturer for the product
  - "Regulation on Safety Data Sheets for Hazardous Substances and Mixtures" and annexes,

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- ☞ "Regulation on the Classification, Labeling and Packing of Materials and Mixtures" and its annexes
- ☞ "Regulation on Health and Safety Precautions for Carcinogenic and Mutagenic Activities" and its annexes,
- ☞ Other relevant local regulations
- ☞ UN ADR, IMDG, IATA lists, ECHA and related EU directives,

Other helpful resources.

### 16.8 Additional Information:

- The information provided in this Safety Data Sheet was prepared based on our best available experience, knowledge and belief on the date of its preparation.
- The information provided is designed as a guide for safe handling, handling, handling, storage, disposal and disposal.
- This information applies only to the specified substance / mixture, unless otherwise specified in the documentation, and may not apply if this substance is used in combination with other substances or if any other procedure is used.
- Please observe the information on the Safety Data Sheet for use.  
This information is based on our current knowledge.  
This Safety Data Sheet defines the product according to the recognized safety regulations, but does not guarantee the safety of the product.  
It does not constitute a guarantee and the product specifications do not establish a legally valid contractual relationship.

1 RG: Official newspaper

2 EINECS: Kimyasal maddelerin Avrupa Envanteri

3 CAS: Kimyasal maddelerin servis kayıt numarası

4 TWA: 8 saatlik belirlenen referans süre için ölçülen veya hesaplanan zaman ağırlıklı ortalama

5 STEL: Başka bir süre belirtilmedikçe, 15 dakikalık bir süre için aşılmaması gereken maruziyet üst sınır değeri.

6 PBT: Persistent Bioaccumulative Toxic

7 VPVB: Very Persistent, Very Bioaccumulative

8 BCF: Bioconcentration Factor

9 ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

10 RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)

11 ADN: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

12 IMDG: International Maritime Dangerous Goods (United Nations)

13 ICAO: International Civil Aviation Organization

14 IATA: International Air Transport Association