

## Solargel-E

### SAFETY DATA SHEET

Substance/Mixture Name: SOLARGEL-E

(EC) No 1907/2006 (REACH), (EC) No 1272/2008 (CLP)

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 Product Identifier

Product Name : SOLARGEL-E

Chemical Name : No-Mixture

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

Booster sensitive explosive for civil use

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

Supplier : Solar Patlayıcı Maddeler San. A. Ş

Adress : Eskişehir Yolu 9. km. Dumlupınar Bulvarı  
No: 266 Tepe Prime B Blok No: 78-83 06800  
Çankaya - ANKARA / TÜRKİYE

E-Mail : [info@solarpatlayici.com](mailto:info@solarpatlayici.com)

Phone : +90. 312. 286 24 25

Fax : +90. 312. 286 32 22

SDS Authorized Person : [ilkayusta@solarpatlayici.com](mailto:ilkayusta@solarpatlayici.com)

##### 1.4 Emergency phone number

Emergency phone : +90. 312. 286 24 25

Poison information center : 114

#### 2. HAZARDS IDENTIFICATION

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

Regulation for classification, labelling and packaging of substances and mixtures-CLP

Explosives- Division 1.1- H201: Explosive, mass explosion hazard.

Acute Tox. 4-H302: Harmful if swallowed.

Acute Tox. 4-H312: Harmful in contact with skin.

##### 2.2. Label elements

GHS Sign(s)



Signal Word : DANGER

Hazard Statement(s)

H201 : Explosive; mass explosion hazard.

H335 : May cause respiratory irritation.

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H319 : Causes serious eye irritation.

Precautionary Statement(s) :

Prevention

P210 : Keep away from hot surfaces /heat / sparks / open flames / No smoking.

P250 : Do not subject to grinding / shock / friction / impact / electrical energy from extraneous source (lighting, static electricity, stray currents, galvanic electricity or electromechanics radiation) or any form of heating.

P270 : Do not eat, drink or smoke when using this product

P271 : Use only outdoors or in a well-ventilated area

P280 : Wear protective gloves / protective clothing / eye protection / face protection.

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**Intervention**

**P370 + P380**

: In case of fire: Evacuate area.

**P372**

: In case of fire: Explosion risk.

**P373**

: Do not fight fire when fire reaches explosives.

**P305+P351+P338**

: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

**P337+P313**

: Get medical advice/attention

**Storage**

**P401**

: Storage in accordance with local / regional / national / international regulations.

**Disposal**

**P501**

: Content destruction act will be carried out in accordance with local / regional / national / international regulations.

**2.3. Other hazards**

No special provision.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable.

**3.2. Mixtures**

| Substances           | CAS No    | EC No      | Content (wt %) | Classification                                          |                              | Labeling                                    |
|----------------------|-----------|------------|----------------|---------------------------------------------------------|------------------------------|---------------------------------------------|
|                      |           |            |                | Hazard Class and Category Code                          | Hazard Statement Code        | Hazard Statement Code and Caution Word Code |
| Inorganic Nitrate    | 6484-52-2 | 229-347-8  | 70-80          | Eye Irr. 2                                              | H319                         | -                                           |
|                      | 7631-99-4 | 231-554-3  | 1-5            |                                                         | H271                         | -                                           |
|                      | 7779-88-6 |            | < 1            |                                                         | H315<br>H335                 | -                                           |
| Sensitizer           | 7632-00-0 | 231-555-9  | < 1            | Oks. Solid 3<br>Acute Tox 3*<br>aquatic Acute 1         | H272<br>H301<br>H400         | GHS03<br>GHS06<br>GHS09<br>Dgr.             |
| Parafin wax          | 8002-74-2 | 232-315-06 | < 5            | Not Classified as hazardous material                    |                              |                                             |
| Liquid Parafinic Oil | 6472-71-8 | 265-176-5  | < 1            | Cars. 1B                                                | H350                         |                                             |
| Emulsifier           |           |            | <5             | Acute Tox 4<br>Acute Tox 4<br>Acute tox 4<br>Eye Irr. 2 | H332<br>H312<br>H302<br>H319 |                                             |

**4. FIRST AID MEASURES**

**4.1. Description of first aid measures**

**Swallowing:** Rinse mouth with water and then drink 1-2 glasses of water. Get medical attention if swallowing occurs in excess. Do not vomit.

**Eye:** Wash with plenty of water for 10-15 minutes. Get medical attention if the problem persists.

**Inhalation:** Take fresh breath by going outside in case of exposure. Take medical support if needed.

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

Known symptoms and effects mentioned on the label (see the section 2.2 or/and section 11).

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

Treatment depends on doctor's opinion as an answer according to victim's reactions.

## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

Do not fight fires involving explosives.

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

Explosive. Keep away from ignition sources. There is a risk of explosion with friction, shock, fire and other ignition sources. Toxic fumes containing carbon oxides and nitrogen oxides are released when it is burned.

### 5.3. Advice for fire-fighters

**General warnings** : Can explode or detonate under fire conditions. Burning may produce toxic fumes.

**Firefighting Precautions** : For small fires, remove the uninfected explosive products from fire area.

**Special Firefighting Methods** : Do not try to fight fire involving explosives. There is a risk of explosion.

Firefighting should be only preventing the other fires. Evacuate personnel to determined safe areas.

## 6. ACCIDENTAL RELEASE MEASURES

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

Use protective equipment that mentioned in chapter 8. Avoid eye and skin contact. Detonators and explosives must not keep together.

### 6.2. Environmental precautions

Prevent the flow of matter through the soil, water and water outlet.

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

Products accidentally released into the soil can be cleaned easily. Collect the waste and treat as explosive.

### 6.4. Reference to other sections

Contact the supplier for disposal instructions (See Chapter 13).

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Transportation** : Protect against heating. Protect against physical damage and / or friction. Transportation of products must be done according to local and national regulations. It should not be transported together with inflammable and other classified explosive materials.

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

Must be kept in cool, dry and well -ventilated area. Storage must be done in accordance to local / national regulations. Recommended storage conditions: +10 °C to +30 °C and 35% to 70% RH. Fire, sparks, welding must not be done, no smoking. Keep away from other classified explosives, flammable materials and ignition. Make a proper grounding to prevent the electrostatic accumulation danger.

### 7.3. Specific end use(s)

No special provision.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

**Exposure Limit Values:** None.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Move/transport properly according to industrial hygiene and safety. Wash hands before break time and end of the day.

#### 8.2.2. Individual protective equipment

**Respiratory System Protection** : Not required while handling and transporting. While blasting application, consider that CO<sub>2</sub>, CO and NO<sub>x</sub> fumes may occur after ignition.

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**Hand Protection** : Wear overgloves.  
**Eye Protection** : Wear safety goggles.  
**Skin Protection** : Wear antistatic clothes

8.2.3. Environmental exposure controls

See SDS section 12.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

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

**Appearance** : Gray-Pink slurry  
**Odour** : Minor odor  
**Odor threshold** : No special provision.  
**pH** : Not applicable.  
**Melting Point/Freezing Point** : Not applicable.  
**Initial boiling point and boiling range**: Not applicable.  
**Flash Point** : Not applicable.  
**Evaporation rate** : Not applicable.  
**Flammability (solid/gas)** : Explosive. Keep away from fire sources.  
**Vapor Pressure** : Not applicable.  
**Vapor density** : Not applicable.  
**Relative Density** : 1.10-1.15 g/cc  
**Solubility in water** : Not applicable.  
**Dispersion coefficient (n octanol-water)**: Not applicable.  
**Ignition Temperature** : Not applicable.  
**Decomposition Temperature** : Not applicable.  
**Fluidity** : Not applicable.  
**Explosive Properties** : Booster Sensitive explosive.  
**Oxidizing Properties** : Contaminated material when the outer package is torn off contains oxidizing components.

### **9.2. Other information**

No data available.

## **10. STABILITY AND REACTIVITY**

### **10.1. Reactivity**

Avoid static discharges from ignition sources. Explosion may occur if it is subjected to heavy impact or if excessive heat is applied or compressed. It may explode in the event of fire or supersonic shock exposure.

### **10.2. Chemical stability**

Explosive material. Product is stable in relevant storage conditions.

### **10.3. Possibility of hazardous reactions**

Explosion may occur if it is subjected to heavy impact or if excessive heat is applied or compressed. Friction, fire, shock, and other sources of ignition may result in explosion. Explosion may cause impact.

### **10.4. Conditions to avoid**

Avoid from heat, fire, ignition source, powerful shock and electrostatic discharge. Do not storage over 50°C

### **10.5. Incompatible materials**

Avoid coming together with other classified explosives during storage. Avoid coming together with oxidizers. Must be kept separately from other chemicals. Must be kept away from heat and hot surfaces and flammable substances.

### **10.6. Hazardous decomposition products**

When cap is exploded, oxides of carbon and oxides of nitrogen fumes may occur.

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#### 11. TOXICOLOGICAL INFORMATION

**11.1.** If the product is used in accordance with the safety data sheet and the ethics, there is no significant health effect. Symptoms and effects increase if the product is misused or overexposed.

##### 11.1.1 Substances

Not applicable.

##### 11.1.2 Mixtures

##### Acute toxicity

: There is no LD50/LC50 data available.

##### Eye contact

: May be irritating after contact

##### Aspiration

: Not expected to irritate the respiratory system. If dust is inhaled, it may damage the respiratory system.

##### Skin Contact

: The result of long contact may be slight irritation, itching and inflammation.

##### Swallowing

: If swallowed, irritation, nausea and vomiting associated with the digestive system may occur.

##### Caustic

: There may be an abrasive effect in case of prolonged contact.

##### Sensitizing

: No data available.

##### Repeated Dose Toxicity

: No data available.

##### Carcinogenicity

: No data available.

##### Mutagenicity

: No data available.

##### Reproductive System Toxicity

: No data available.

#### 12. ECOLOGICAL INFORMATION

##### 12.1. Toxicity

: No data available.

##### 12.2. Persistence and degradability

: No data available.

##### 12.3. Bio accumulative potential

: No data available.

##### 12.4. Mobility in soil

: No data available.

##### 12.5. Results of PBT and vPvB assessment

: No data available.

##### 12.6. Other adverse effects

: Do not allow this product to enter the water supply, drainage and sewage system.

#### 13. DISPOSAL CONSIDERATIONS

##### 13.1. Waste treatment methods

Treat as special waste. Contact with the manufacturer. Waste disposal must be carried out in accordance with national regulations.

#### 14. TRANSPORT INFORMATION:



##### 14.1. UN number

|                 |               |            |
|-----------------|---------------|------------|
| UN number: 0241 | ADR/RID: 0241 | IMDG: 0241 |
|-----------------|---------------|------------|

##### 14.2. UN proper shipping name

Explosive, Blasting Type

Hazchem or Emergency Code : E

##### 14.3. Transport hazard class(es)

|               |            |
|---------------|------------|
| ADR/RID: 1.1D | IMDG: 1.1D |
|---------------|------------|

##### 14.4. Packaging group

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There is no available packing group for this product.

#### **14.5. Environmental hazards**

|             |                           |          |
|-------------|---------------------------|----------|
| ADR/RID: No | IMDG marine pollutant: No | IATA: No |
|-------------|---------------------------|----------|

#### **14.6. Special precautions for user(s)**

No data available.

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

No data available.

### **15. REGULATORY INFORMATION:**

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

- (EC) No 1272/2008 (classification, labelling and packaging of substances and mixtures-CLP)

### **16. OTHER INFORMATION:**

#### **Other "H" of the Expression Statements:**

**H228:** Flammable solid

**H261:** In contact with water releases flammable gas

**H271:** May cause fire or explosion; strong oxidizer.

**H272:** May intensify fire; oxidizer.

**H301:** Toxic if swallowed.

**H302:** Harmful if swallowed.

**H315:** Causes skin irritation.

**H319:** Causes serious eye irritation.

**H332:** Harmful if inhaled

**H335:** May cause respiratory irritation.

**H350:** May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**H400:** Very toxic to aquatic life

**H410:** Very toxic to aquatic life with long lasting effects

#### **Supplier notes:**

Information in this document should be available for people that will use this product. More information is needed, contact with Solar Patlayıcı Maddeler Sanayi A.Ş.

#### **Abbreviations and acronyms:**

EC : European Commission

CLP : Classification, Labeling and Packing

#### **SDS';**

**First Issuing Date** : 01/10/2014

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#### **SDS Issued by:**

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