

SUPERPOWER 90
SAFETY DATA SHEET

Substance/Mixture Name: SUPERPOWER 90
(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 : SUPERPOWER 90

Chemical Name : No-Mixture

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

Cap sensitive explosive for civil use explosive

1.3 Details of the supplier of the safety data sheet

Supplier : Solar Patlayıcı Maddeler San. A. Ş
Address : Eskişehir Yolu 9. km. Dumlupınar Bulvarı
No: 266 Tepe Prime B Blok No: 78-83 06800
Çankaya - ANKARA / TÜRKİYE

E-Mail : info@solarpatlayici.com

Phone : +90. 312. 286 24 25

Fax : +90. 312. 286 32 22

SDS Authorized Person : 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 electro mechanic 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 Number	EC Number	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 Irritation 2	H319	-
	7631-99-4	231-554-3	1-5		H271	-
	7779-88-6		< 1		H315 H335	-
Sodium Nitrite	7632-00-0	231-555-9	< 1	Oks. Solid 3 Acute Tox 3* aquatic Acute 1	H272 H301 H400	
Aluminum Powder	7429-90-5	231-072-3	< 5	Pyr. Sol. 1 Water-react. 2	H228 H261	GHS02 Dgr.
Liquid Paraffinic Oil	6472-71-8	265-176-5	< 1	Cars. 1B	H350	
Emulsifier			<5	Acute Tox. Asp 4 Acute Tox Skin Cat. 4 acute tox oral rt. 4 Eye Irr. Cat. 2	H332 H312 H302 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).

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.

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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 explosive 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. Do not stopover in city center areas while transporting. It must not be transported together with other classified explosive materials or inflammable 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 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 CO₂, CO and NO_x fumes may occur after ignition.

Hand Protection : Wear overgloves.

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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
Odor : 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 : Cap Sensitive explosive, 6000m/sec velocity of detonation (V.O.D. - in 40mm steel pipe)
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. The explosives must be kept separately from other chemicals.

10.6. Hazardous decomposition products

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

11. TOXICOLOGICAL INFORMATION

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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
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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
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14.4. Packaging group

There is no available packing group for this product.

14.5. Environmental hazards

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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 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 Explosive.

Abbreviations and acronyms:

EC : European Commission

CLP : Classification, Labeling and Packing

SDS';

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SDS Issued by;

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