

# Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

### 1.1. Identification of the Preparation

Product name: GreenSol (Aerosol I, SNAP EPA)  
Chemical name: N/A - this is a mixture / preparation  
CAS No.: N/A - this is a mixture / preparation  
Chemical formula: N/A - this is a mixture / preparation  
EINECS No: N/A - this is a mixture / preparation

### 1.2. Use of the Preparation:

The intended or recommended use of this preparation is as a Fire Extinguishing agent and or Fire Suppression agent.

### 1.3. Company Identification

Manufacturer / Supplier: GreenEx Fire Suppression Solutions B.V.  
Address: P.O. Box 13  
7037 ZG Beek  
The Netherlands  
Phone no.: +31 (0) 85 04 02 135  
Email: [support@green-ex.nl](mailto:support@green-ex.nl)  
Website: [www.green-ex.nl](http://www.green-ex.nl)  
Date of issue: October 2023

### 1.4. Emergency Telephone

+31 (0) 85 04 02 0135

## 2. HAZARDS IDENTIFICATION

- Hazards for humans related to the GreenSol compound has not been found.
- Hazards for humans related to the aerosol agent released by the solid GreenSol compound has not been found, based on the Toxicological assessment.\*
- Signs and symptoms related to the aerosol agent are only referred to actual exposure and/or chronic overexposures. In real situations the exposure will be very limited.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

2.1.	Ingredient name / Chemical formula	Wt.%	Cas No.	EINECS No.	Class, R and S phrases
	Potassium Nitrate / KNO <sub>3</sub>	75%	7757-79-1	231-818-8	See sec. 15
	Magnesium / Mg	<1%	7439-95-4	231-104-6	See sec. 15
	Epoxy Resin Polymer	24%	25068-38-6	See A)	See sec. 15

- A) EINECS does not include synthetic polymers (these are registered in EINECS under their building blocks, monomers).  
See 67/548/EEC; article 13; 79/831/EC; and 81/437/EC.

NOTE: Unless a component presents a severe hazard, it does not need to be considered in the SDS if the concentration is less than 1%. (According to Directive 1999/45/EC.)

### 3.1. FOR HUMANS

Threshold Limit values:                      None established

SIGNS AND SYMPTOMS ACUTE EXPOSURE	
Eye Contact	May cause redness
Skin Contact	At normal contact no injury
Inhalation	Can be irritating to mucous membranes.
Ingestion	At normal contact no injury
Chronic overexposure	At normal contact no injury
For Environment	None established

### 4. FIRST AID MEASURES

4.1. First Aid measures are referred to actual exposure and or chronic over exposure

Eye contact:                      wash eyes with large amounts of water,  
 Skin contact:                    Remove clothing and shoes. Wash skin with soap.  
 Inhalation:                        Remove from exposure compartment to fresh air.  
 Ingestion:                         Not likely

### 5. FIRE EXTINGUISHING MEASURES

- 5.1. Extinguishing media: This preparation is an fire extinguishing agent.
- 5.2. There are NO extinguishing media, which must not be used for safety reasons. If material is involved in a fire, use agent appropriate for material around this product.
- 5.3. Relative to special protective equipment needed for fire fighters. Material will generate an aerosol under conditions of fire.
- 5.4. For personal protection: In places where there is a fire, always wear personal protecting equipment and clothing.

### 6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal Precautions
  - Respiratory protecting:            at normal contact not needed
  - Hand protection:                    at normal contact not needed
  - Eye protection:                        at normal contact not needed
  - Skin and Body protection:        at normal contact not needed
- 6.2. Waste disposal Methods        See section 13
- 6.3. Clean up Precautions            Sweep up and place in closed container for disposal see section 13.

## 7. HANDLING AND STORAGE INSTRUCTIONS

- 7.1. Handling  
Do not mix with other extinguishing agents. Avoid contact with combustible materials. See incompatibility information in Heading 10.
- 7.2. Storage  
Should be stored in original container / housing. Keep dry.
- 7.3. Specific use  
The intended and or recommended use of this preparation is as a Fire Extinguishing agent.

## 8. EXPOSURE / PERSONAL PROTECTION CONTROLS

- 8.1. Exposure: Before entering a compartment with the material in aerosol phase, mechanical ventilation is preferred to avoid unnecessary exposure.
- 8.2. Personal protection
- |                         |   |
|-------------------------|---|
| Respiratory Protection: | dust mask where dustiness is prevalent, or TLV is exceeded.       |
| Hand protection:        | at normal contact not needed                                      |
| Eye protection:         | goggles recommended as mechanical barrier for prolonged exposure. |
| Skin protection:        | at normal contact not needed                                      |

## 9. PHYSICAL AND CHEMICAL CHARACTERISTICS

- 9.1. General information
- |             |                                  |
|-------------|----------------------------------|
| Appearance: | Solid block, White to light gray |
| Odor:       | None                             |
- 9.2. Important health, safety and Environmental information
- |                               |  |
|-------------------------------|--|
| pH:                           | Not applicable.  |
| Boiling point/boiling range:  | Not applicable.  |
| Flash point:                  | Not applicable.  |
| Flammability (solid/gas):     | Not flammable.   |
| Explosive properties:         | Not explosive.   |
| Vapor pressure:               | Not applicable.  |
| Relative density (Water = 1): | Not applicable.  |
| Solubility:                   | -Water solubility: Partially soluble.<br>-Fat solubility: Not soluble. |
| Viscosity:                    | Not applicable.  |
| Vapor density (Air = 1):      | Not applicable.  |

<b>10. STABILITY AND REACTIVITY</b>
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- |       |  |   |
|-------|--|---|
| 10.1. | Stability:<br>Conditions to Avoid:           | Stable<br>On Contact with very hot surfaces<br><150° Celsius, |
| 10.2. | Hazardous reactions:<br>Conditions to Avoid: | Will not occur<br>None known                                  |
| 10.3. | Materials to Avoid:                          | None known  |
| 10.4. | Hazardous Decomposition Products:            | Hazardous polymerization will NOT occur.                      |

<b>11. TOXICOLOGICAL INFORMATION</b>
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- 11.1. Product is nontoxic.

In case of Fire the Toxicity is caused by the fire itself (fire gasses) and the products involved in the fire.

11.2.	Components		
	Potassium Nitrate	Toxicity:	Oral LD50 (RAT) 3750 mg/kg.
		Target Organs:	Blood, central nervous system
	Magnesium	Toxicity:	Oral LDLO (DOG) 230 mg/kg.
		Target Organs:	Central nervous system, liver and kidneys
	Epoxy Resin Polymer	Irritation Data:	Skin (Guinea Pig) 2750 mg/55 days inert. Eye (Rabbit) 100 mg. Mild.
	Toxicity:	Oral LD50 (RAT) 11,4 g/kg.	

## 12. ECOLOGICAL INFORMATION

- 12.1. Mobility: With present data no problems
- 12.2. Degradability: With present data no problems
- 12.3. Bioaccumulation Potential: With present data no problems
- 12.4. Ecotoxicity: With present data no problems
- 12.5. Other Adverse Effects:
- |   |      |
|---|------|
| Ozon depletion Potential:               | None |
| Photochemical Ozone Creation Potential: | None |
| Global Warming Potential:               | None |

## 13. DISPOSAL CONSIDERATIONS

- 13.1. Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by Directive 91/689/EC. Comply with all local, state and federal/international regulations.

## 14. TRANSPORT INFORMATION

- 14.1. This product is not classified as dangerous according to ADR/RID, IMDG and ICAO/IATA and national regulation as per TNO report 15EM/0337, 06.15367/01.03.

## 15. REGULATORY INFORMATION

- 15.1. For the components underneath 15.2. the European EU Classification and R&S phrases, referred to the components of the GreenSol compound are related only to the SINGLE components considered as separated chemical entities. Once mixed in the production of the GreenSol compound, the risk sentences of the single components are not applicable being the GreenSol compound a separate chemical entity.

## 15.2.

15.2.	Components			
	Potassium Nitrate	EU Classification R Phrases  S Phrases	Oxidizer 8  16 41  36/37/38	- Contact with combustible material may cause fire. Keep away from sources of ignition - NO Smoking. In case of fire and or explosion, do not breathe fumes Irritating to eyes, respiratory system and skin.
	Magnesium	EU Classification R Phrases  S Phrases	Flammable 15  17  2 43 7/8	- Contact with water liberates highly flammable gases. Spontaneously flammable in air. Keep out of reach of children. In case of fire never use water. Keep container tightly closed and dry.
	Epoxy Resin Polymer	EU Classification R Phrases  S Phrases	Irritant 36/38 43  53 28  37/39  61	- Irritating to eyes and skin. May cause sensitization by skin contact. May cause long-term adverse effects in aquatic environment. In case of contact with skin, rinse with water. Wear suitable gloves and eye/face protection. Avoid release to the environment. Refer to special instructions.

## 16. OTHER INFORMATION

- 16.1. Comply with manufacturer's installation and maintenance procedures as mentioned in DESIGN, INSTALLATION AND MAINTENANCE MANUAL OF GREENEX GREENSOL FIXED AEROSOL FIRE EXTINGUISHING SYSTEM. P/N GREENSOL MANUAL.

## 17. DISCLAIMER

- 17.1. The above information in the Material Safety Data Sheet reflects the current state of knowledge of our products and shall be used as a guideline. No binding statements as to the contractually agreed product characteristics may be inferred there from. GreenEx Fire Suppression Solutions shall not be held liable for any damage resulting from handling or from contact with the above product.