

Version 4.1 July 2023

# Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

1.1. Identification of the Preparation

Product name:

Chemical name:

CAS No.:

Chemical formula:

CAS No:

Chemical formula:

CHENNECS No:

GreenSol (Aerosol I, SNAP EPA)

N/A - this is a mixture / preparation

N/A - this is a mixture / preparation

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
Website: 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.

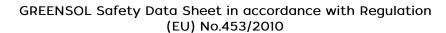
## 3. COMPOSITION / INFORMATION ON INGREDIENTS

2.1.	Ingredient name / Chemical formula	Wt.%	Cas No.	EINECS No.	Class, R and S phrases
	Potassium Nitrate / KNO3	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.







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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	At normal contact no injury			
overexposure				
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 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.





## GREENSOL Safety Data Sheet in accordance with Regulation (EU) No.453/2010

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## 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

рН: Not applicable. Not applicable. Boiling point/boiling range: Not applicable. Flash point: Flammability (solid/gas): Not flammable. Explosive properties: Not explosive. Vapor pressure: Not applicable. Relative density (Water = 1): Not applicable. Solubility: -Water solubility: Partially soluble.

-Fat solubility: Not soluble.

Viscosity: Not applicable. Vapor density (Air = 1): Not applicable.





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## 10. STABILITY AND REACTIVITY

10.1. Stability: Stable

Conditions to Avoid: On Contact with very hot surfaces

<150° Celsius,

10.2. Hazardous reactions: Will not occur

Conditions to Avoid: None known

10.3. Materials to Avoid: None known

10.4. Hazardous Decomposition Products: Hazardous polymerization will NOT

occur.

## 11. TOXICOLOGICAL INFORMATION

## 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.	





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## 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:

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.

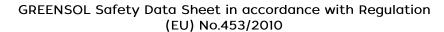
## 14. Transport Information

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.







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## 15.2.

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

