

# SAFETY DATA SHEET

## LIQUID FIRE SUPPRESSION AGENT

### SECTION I. Chemical Product and Company Identification

#### Identification of the preparation

Product Name: "Liquid Fire Suppression Agent"  
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 Number: N/A - This is a mixture/preparation.

#### Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

#### Company Identification

Manufacturer/Supplier: Guardian Safety Solutions International  
Address: 8701 John Carpenter Freeway, Suite 230 Dallas, Texas 75247  
Prepared By: Guardian Safety Solutions International  
Phone: (800) 786-2178  
Email Address: sales@guardianssi.com  
Internet/Home Page: www.guardianssi.com

#### Emergency Telephone

INFOTRAC 1-800-535-5053  
Account Number: 78764

### SECTION II. Hazard Identification

#### GHS – Classification

Acute Toxicity: Category 5  
Eye Irritation: Category 2B  
Skin Irritation: Category 3

#### GHS Label Elements:

Hazard Symbols: WARNING  
Signal Word: NONE

#### Hazard Statements:

H303 May be harmful if swallowed.  
H313 May be harmful in contact with skin.  
H320 Causes eye irritation  
H333 May be harmful if inhaled

#### Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P234 Keep in original container.  
P251 Pressurized container; do not pierce or burn, even after use  
P264 Wash hands and face thoroughly after handling  
P301+322 If swallowed, drink 2-3 glasses of water.  
P302+352 If on skin, wash with soap and water  
P305+351+338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, and continue to rinse.  
P337+313 If eye irritation persists, get medical advice/attention.  
P401+402+403 Store in original container in a dry, well ventilated place.

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**SECTION III. Composition/Information on Ingredients**

Ingredient Name: Potassium Carbonate (Potash).  
Chemical Formula:  $K_2CO_3$ .  
CAS No.: 584-08-7.  
EINNECS Number: 209-529-3.  
Concentration, Wt%: 43-45%

Ingredient Name: Water.  
Chemical Formula:  $H_2O$   
CAS No.: 7732-18-5.  
EINNECS Number: 231-791-2.  
Concentration, Wt%: 58-60%

**SECTION IV. First Aid Measures**

Eye Contact: Wash with water for a minimum of 15 minutes. If irritation persists seek medical attention.  
Skin Contact: Wash affected area with soap and water. If irritation persists seek medical attention.  
Inhalation: Remove from exposure. If irritation persists seek medical attention.  
Ingestion: Dilute by drinking large quantities of water.

**SECTION V. Firefighting Measures**

This preparation is an extinguishing media.  
There are NO extinguishing media which must not be used for safety reasons.  
NO special protective equipment is needed for fire-fighters. Wear protective equipment appropriate for the fire conditions.

**SECTION VI. Accidental Release Measures**

Turn off or disconnect electrical sources in the immediate area.  
For personal protection: Prevent skin and eye contact, see Heading 8.  
Clean up: Use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up, see Heading 13.  
NO harm to the environment is expected from an accidental release of this preparation.

**SECTION VII. Handling and Storage**

Keep Separate from acids. See incompatibility information in Heading 10.  
NO special conditions are needed for safe storage. See Heading 10 for incompatibilities. Store in original container. Keep tightly closed until used. There is minimal danger to the environment from a storage release.

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

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### SECTION VIII. Exposure Controls and Personal Protection

#### Exposure limit values

There are currently NO occupational exposure limit values for this preparation or any components.

#### Exposure Controls

##### Occupational exposure controls

**Respiratory protection:** Not expected to be needed. Vapors will be water.

**Hand Protection:** Use rubber gloves when handling the preparation.

**Eye Protection:** Use safety glasses with side shields or safety goggles.

**Skin Protection:** No special equipment is needed.

**Environmental exposure controls:** No special equipment is needed.

### SECTION IX. Physical and Chemical Properties

#### General Information

Appearance: Clear colorless liquid

Odor: None

#### Important health, safety, and environmental information

pH: 11.5 ± 1 (at 25 ° C)

Boiling point/boiling range: About 110 ° C (About 230 ° F)

Flash point: None to boiling.

Flammability (solid/gas): Not flammable

Explosive properties: Not explosive

Oxidizing properties: Not an oxidizer

Vapor Pressure: About 12mm Hg

Relative Density (Water=1): About 1.4

Solubility:

- Water Solubility: Completely soluble

- Fat Solubility: Not soluble

Partition coefficient, n-octanol/water: Not determined

Viscosity: Not determined

Vapor density: Not determined

Evaporation rate (Butyl acetate = 1): N/A

#### Other Information

Auto ignition temperature: Does not ignite

### SECTION X. Stability and Reactivity

#### Conditions to avoid

There are no known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

#### Materials to avoid

Ammonium compounds, acids, corrodible metals (copper aluminum).

Reactive metals may react with the water in this preparation.

Energized electrical equipment may cause a shock hazard when this fire extinguishing agent is used.

#### Hazardous decomposition product

Normally stable

Hazardous polymerization will not occur.

Combustion or decomposition products include CO<sub>2</sub>, CO.

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### SECTION XI. Toxicological Information

Toxicity data has not been determined for this product.  
Potassium Carbonate: Oral LD<sub>50</sub> (rat) = 1870 mg/kg.

### SECTION XII. Ecological Information

**Ecotoxicity:** Not determined

**Mobility:** Not determined

**Persistence and degradability:** Not determined

**Bioaccumulative potential:** Not determined

**Other adverse effects**

Ozone depletion potential:	None
Photochemical ozone creation potential:	None
Global warming potential:	Release of carbon dioxide by thermal decomposition or chemical reaction could contribute to global warming.

### SECTION XIII. Disposal Considerations

No harm to the environment is expected from this preparation.  
Dispose of in compliance with national, regional, and local provisions that may be in force.

### SECTION XIV. Transportation Information

Hazard Class or Division: Not hazardous

There are no special precautions known.

No harm to the environment is expected from this preparation.

Please Note: Although this material is not considered hazardous, when contained in a stored pressure fire extinguisher pressurized with a nonflammable gas, the extinguisher itself is considered a hazardous material by the U.S. Department of Transportation (USDOT) and Transport Canada (TC). The proper shipping name shall be Fire Extinguisher and the UN Identification Number is UN 1044. The USDOT hazard class is Limited Quantity when pressurized to less than 241 psig and when shipped via highway or rail. Use Class 2.2, Non-Flammable Gas, when shipping via air.

### SECTION XV. Regulatory Information

EU Classification:	Irritant
Exposure Limit Values:	None
EINECS Status:	All components are included in EINECS Inventory or are exempt from listing
EPA TSCA Status:	All components are included in the TSCA Inventory or are exempt from listing.
Canadian DSL (Domestic Substances List):	All components are included in the DSL or are exempt from listing.
Environmental restrictions:	None are known
Restrictions on Marketing and Use:	None are known

Refer to any other national measures that may be relevant

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### SECTION XVI. Other Information

This Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

**EU Classification:**

Irritant R 36/37/38

S 26

S 36

Irritating to eyes, respiratory system, and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Wear suitable protective clothing

**(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

HEALTH:	<u>2</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	2. Moderate Hazard
		1. Slight Hazard
		0. Minimal Hazard

**(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

This product is rated: **D2B** – Product may irritate skin, eyes, or mucous membrane.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. GUARDIAN SAFETY SOLUTIONS INTERNATIONAL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available