

Haven Fire Suppression Safety Device

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SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Haven Fire Suppression Safety Device**

Other means of identification : Not available.

Recommended use of the chemical and restrictions on use

: Fire Extinguisher
Recommended restrictions: None Known.

Chemical family

: Mixture

Name, address, and telephone number
of the supplier:

HAVEN Fire Safety Inc.

65 South 11th Street
Brooklyn, NY, USA
11249

Supplier's Telephone #

: 855-285-5858 (Monday to Friday 9am-5pm EST)

24 Hr. Emergency Tel #

: Not available.

Name, address, and telephone number of
the manufacturer:

Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Light yellow powder. Odorless.

Most important hazards: Gas Under Pressure. Avoid contact with skin and eyes. Do not breathe dust or fume. Do not ingest.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Gases under pressure - Compressed gas
Simple asphyxiant

Label elements

Hazard pictogram(s)



Signal Word

WARNING!

Hazard statement(s)

Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation

Precautionary statement(s)

Protect from sunlight.
Store in a well-ventilated place.



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Other hazards

Other hazards which do not result in classification :Direct eye contact may cause slight redness.

Ecological information:

Not expected to be harmful to aquatic organisms. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Nitrogen	Not available.	7727-37-9	1.0 - 5.0
Crystalline silica, quartz	Quartz silica Crystallized silicon dioxide	14808-60-7	< 1

The exact concentrations and/or specific chemical identities of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Rinse mouth. Do not give anything by mouth to a convulsing or unconscious person. Obtain medical attention if symptoms develop and persist.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Obtain medical attention immediately.
- Skin contact* : Wash skin with warm water and mild soap. Obtain medical attention if symptoms develop and persist.
- Eye contact* : Flush eyes with water as a precaution. Protect unharmed eye. Obtain medical attention if symptoms develop and persist.

Most important symptoms and effects, both acute and delayed

- : Asphyxiant, can replace oxygen in confined area. At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen. May cause mild skin and eye irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

- : Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread the fire.

Special hazards arising from the substance or mixture / Conditions of flammability

- : Not flammable under normal conditions of use. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

Hazardous combustion products

- : None known.

Special protective equipment and precautions for firefighters



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Protective equipment for fire-fighters

- : Firefighter should wear full protective clothing including self contained breathing apparatus.

Special fire-fighting procedures

- : Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Shield personnel to protect from venting or rupturing containers. Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- : Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions : Ensure spilled product does not enter confined areas.

Methods and material for containment and cleaning up

- : Ventilate area of release. Do not enter confined spaces unless adequately ventilated. Eliminate all ignition sources. Stop spill or leak at source if safely possible. Sweep up or vacuum up spillage and collect in suitable container for disposal. Notify the appropriate authorities as required.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- : Do not handle until all safety precautions have been read and understood. Contains gas under pressure; may explode if heated. Do not puncture or incinerate containers. Use only in well-ventilated areas. Avoid breathing spray. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Keep away from extreme heat and flame. Keep away from incompatibles.

Conditions for safe storage : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Do not store in direct sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Strong acids and oxidizing agents

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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Nitrogen	N/Av	N/Av	N/Av	N/Av
Crystalline silica, quartz	0.025 mg/m ³ (respirable)	N/Av	0.05 mg/m ³ (respirable) (final rule limit)	N/Av

Exposure controls

Ventilation and engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Recommended monitoring procedures: Provide sufficient air exchange and/or exhaust in work rooms.

Respiratory protection

: If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

Skin protection

: Wear protective gloves. Advice should be sought from glove suppliers.

Eye / face protection

: Wear as appropriate: Tightly fitting safety goggles; Safety glasses with side shields.

Other protective equipment

: An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Avoid breathing spray. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Light yellow powder.

Odour : Odorless.

Odour threshold : Not available.

pH : Not available.

Melting Point/Freezing point : Not available.

Initial boiling point and boiling range

: Not available.

Flash point : Not available.

Flashpoint (Method) : Not available.

Evaporation rate (BuAe = 1) : Not available.

Flammability (solid, gas) : Not flammable.

Lower flammable limit (% by vol.)

: Not available.

Upper flammable limit (% by vol.)

: Not available.

Oxidizing properties : None known.

Explosive properties : Not explosive.

Vapour pressure : Not available.

Vapour density : Not available.



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Relative density / Specific gravity

: Not available.

Solubility in water

: Insoluble.

Other solubility(ies)

: Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature

: Not available.

Decomposition temperature

: Not available.

Viscosity

: Not available.

Volatiles (% by weight)

: Not available.

Volatile organic Compounds (VOC's)

: Not available.

Absolute pressure of container

: Not available.

Flame projection length

: Not available.

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not normally reactive.

Chemical stability

: Stable under normal conditions.

Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.

Conditions to avoid

: Protect from sunlight. Heat, sparks and open flames, electrical and static discharge. Ensure adequate ventilation, especially in confined areas. Incompatible materials

Incompatible materials

: See Section 7 (Handling and Storage) for further details.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Simple asphyxiant - this product does not contain oxygen and may cause asphyxia in confined spaces.

Sign and symptoms ingestion

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sign and symptoms skin

: Direct skin contact may cause slight or mild, transient irritation.

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- Sign and symptoms eyes* : Direct eye contact may cause slight or mild, transient irritation.
- Potential Chronic Health Effects** : Long-term inhalation of dusts may cause persistent adverse effects on the lungs (e.g. inflammation, fibrosis, changes to alveolar cells), which are believed to result from dust overloading.
- Mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : This product contains Crystalline silica - Quartz. Crystalline silica - Quartz is classified as carcinogenic by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). These designations are only applicable to very fine or respirable particulates of Crystalline silica - Quartz.
- Reproductive effects & Teratogenicity** : Not expected to have other reproductive effects.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015), this product is not expected to cause target organ toxicity through single or repeated exposures.
- Medical conditions aggravated by overexposure** : Pre-existing skin, eye and respiratory disorders.
- Synergistic materials** : No information available.
- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Nitrogen	N/Av	N/Av	N/Av
Crystalline silica, quartz	N/Av	N/Av	N/Av

- Other important toxicological hazards**
: None known.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS #</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Nitrogen	7727-37-9	N/Av	N/Av	None.
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.



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<u>Ingredients</u>	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Nitrogen	7727-37-9	N/Av	N/Av	None.
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.

<u>Ingredients</u>	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Nitrogen	7727-37-9	N/Av	N/Av	None.
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.

Persistence and degradability

: No information available.

Bioaccumulation potential

: No information available.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Nitrogen (CAS 7727-37-9)	N/Av	N/Av

Mobility in soil : No information available.

Other Adverse Environmental effects

: No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. See Section 7 (Handling and Storage) for further details. Allow to safely dissipate into atmosphere. Do not puncture or incinerate containers.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.







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SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
ICAO/IATA	UN1044	Fire extinguishers	2.2	none	
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction				
IMDG	UN1044	FIRE EXTINGUISHERS	2.2	none	
IMDG Additional information	Consult the IMDG regulations for exceptions.				
TDG	UN1044	FIRE EXTINGUISHERS	2.2	none	
TDG Additional information	Please consult the TDG guidelines for further information.				
49CFR/DOT	UN1044	Fire Extinguishers	2.2	none	
49CFR/DOT Additional information	Consult 49CFR 173.309 for more information.				

Special precautions for user : Keep away from extreme heat and flame. Appropriate advice on safety must accompany the package.

Environmental hazards : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Nitrogen	7727-37-9	Yes	None.	N/Av	No	NS
Crystalline silica, quartz	14808-60-7	Yes	None.	None.	No	N/Av



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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Gas Under Pressure Simple Asphyxiant

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Nitrogen	7727-37-9	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes
Crystalline silica, quartz	14808-60-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes

Canadian Information:

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product. All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Nitrogen	7727-37-9	231-783-9	Present	Present	N/Av	KE-25994	Present	HSR001027
Crystalline silica, quartz	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125

SECTION 16. OTHER INFORMATION

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- EC50: Effective Concentration 50%
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IECSC: Inventory of Existing Chemical Substances
- Inh: Inhalation
- IOC: Inventory of Chemicals
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota

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N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RQ: Reportable Quantity
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SCBA: Self-Contained Breathing Apparatus
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
- 2. ECHA - European Chemical Agency
- 3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, (Chempendium, HSDB and RTECs).
- 4. Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists
- 6. California Proposition 65 List
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

<p>Prepared for: HAVEN Fire Safety Inc. 65 South 11th Street Brooklyn, NY 11249 Telephone: 855-285-5858 Website: www.havenfiresafety.com Email: info@havenfiresafety.com</p>	
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DISCLAIMER

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of the data contained herein. The data in this Safety Data Sheet does not apply to use with any other product or in any other process.

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