



Aerosol Fire Suppression



Safety Data Sheet according to Regulation (EC) No. 1907/2006 & Amendment 987/2008 (REACH) & HazCom 2012

5852 Baker Road
Minnetonka, MN
55345
USA

SDSR# FU013B

DATE: 1/20

SECTION 1: Identification of the Substance/Mixture and of the Company/undertaking Product Identifier

Stat-X® Condensed Aerosol Generators - Models 30 to 2500.

Details of the supplier of the safety data sheet:

Fireaway Inc., 5852 Baker Road, Minnetonka, MN, 55345, USA

Telephone +1 (952) 935-9745, Fax +1 (952) 935-9757

Email address of the competent person: info@statx.com

For information only, call 1-952-935-9745.

For emergencies, call

INFOTRAC

USA & CANADA: +1-800-535-5053

INTERNATIONAL: +1-352-323-3500 (collect)

Only Representative Contact:

Blue Frog Scientific Limited, Quantum House,

91 George Street, Edinburgh, EH2 3ES

+44 (0) 131 523 1412

SECTION 2: Hazards Identification

Possible exposure to aerosol suppression agent if generator is activated. May cause temporary, mild irritation of mucous membranes if inhaled. US EPA listed under US EPA SNAP List for use as a total flooding fire suppression agent in normally occupied spaces.

2.1 Classification

OSHA Regulatory Status

All 3 chemicals listed below are not stored as raw loose powder but homogeneously blended and pressed into a single solid aerosol forming compound pellet. Exposure to raw dust from the pellet is very limited which may contain any of the 3 chemicals listed in Section 3.

Potassium nitrate: Oxidizer solid

Dicyandiamide: Not a hazardous substance or mixture

Phenolic resin: This chemical is considered hazardous under 29 CFR 1910.1200 (Hazard Communication)

2.2 Label Elements

Signal Word

WARNING

Hazard Statements

Potassium nitrate dust:

May intensify fire; oxidizer (H272)

Dicyandiamide dust: Not a hazardous substance or mixture



Safety Device



Phenolic Resin dust:

Causes skin irritation (H315)

Causes eye irritation (H319)

May cause respiratory irritation (H335)

Precautionary Statements

Potassium nitrate: Keep/store away from clothing/combustible materials

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing particles/dust/gas. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

IF ON CLOTHING: Dispose of contaminated clothing and gloves after use in accordance with applicable laws and good industrial hygiene practices. Contaminated clothing should not be allowed out of the workplace unless well rinsed with water.

Disposal

Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards Not Otherwise Classified (HNOC)

Not applicable.

SECTION 3: Composition / Information on Ingredients

Hazardous components: Does not contain dangerous materials as defined by ordinance on hazardous materials.

Components – Chemical (Hazardous Components ≥ 1%)	CAS#	Weight %	COMMENTS:
Potassium Nitrate ECHA Registration no. 01-2119488224-35-0066	7757-79-1	75.0	Components are blended and pressed into a highly stable, molded form. Molded composition is contained within a sealed double-walled stainless steel housing – no environmental exposure. Upon generator unit activation these chemical elements are not discharged from the unit but are fully consumed by an internal chemical reaction.
DCDA	461-58-5	16.5	
Organic Resin	9003-35-4	8.5	
Appearance & Odor:			Beige to white in color. No odor.
Auto-Ignition Temperature:			300 ^o C
Solubility in Water:			Slightly Soluble

SECTION 4: First aid measures

Contact Method:	Procedure:
Inhalation	Remove to fresh air
Eye Contact	Flush with water
Skin Contact	Wash with soap and water.
Ingestion	Not a likely route of exposure.
Seek medical attention for further treatment, observation, and support if necessary.	

SECTION 5: Firefighting Measures

In the event of a fire, evacuate the area and inform emergency services. Ignition of Stat-X produces a fire-suppression aerosol. Water may be used as an additional suppression agent.

SECTION 6: Accidental Release Measures

If these devices are spilled they can be safely recovered by hand and should be inspected for damage prior to repacking. Suspect or damaged articles should be labeled and consigned for correct destruction.

SECTION 7: Handling and Storage

Store in temperate conditions. Avoid shock, electric currents, static discharge, excessive heat and extended periods of storage at temperatures greater than 65°C.

SECTION 8: Exposure Controls/Personal Protection

Respiratory Protection	Ventilate area completely after discharge. Do not enter area prior to complete venting of enclosure. Use filter mask as necessary during clean-up.
Hand Protection	Wear gloves if handling generators prior to cooling.
Eye Protection	Safety glasses are advisable.
Skin Protection	N/A

SECTION 9: Physical and Chemical Properties

Appearance:	Stainless Steel Cylinder up to 270 mm in length
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SECTION 10: Stability and Reactivity

These devices are extremely stable below 125°C. They are packaged to protect the articles from electrical power and shock. As with any stored products, stored packaging should be protected from fire and high temperatures.

SECTION 11: Toxicological Information

Toxic by-products of combustion are extremely low. Main by-products are listed below with 15-minute TWA values for a maximum 100g/m³ concentration in a hermetically sealed volume.

Gas	15 minute Time Weighted Average in parts per million
NO ₂	1.08
NO	0.97
CO	84.20

SECTION 12: Ecological Information

These devices are sealed and present no ecological hazards. The aerosol produced upon ignition has very low global warming potential and an ozone depletion potential = 0.

SECTION 13: Disposal Considerations

Comply with all local, state, and federal/international regulations.

SECTION 14: Transport Information

UN Number and Proper Ship Name: UN3268 Safety Devices 9 DOT-SP 20600	Authorized Modes of Transport: Motor Vehicle, Rail, Cargo Vessel, Cargo Aircraft Only
UN Classification: Class 9, Safety Devices US DOT PHMSA Special Permit DOT-SP 20600 (FOURTH REVISION), dated July 3, 2019 ¹	Shipping Limitations: Cargo Aircraft: Max single packaging – 100 kg.
US DOT PHMSA Special Permit DOT-SP 20600 modes of transport authorized: motor vehicle, rail, cargo vessel, and cargo-aircraft only. A person who is not holder of this special permit, but receives a fire suppression device covered by this special permit, may reoffer it for transportation provided no modification or change is made to the fire suppression device and it is offered for transportation in conformance with this special permit and the Hazardous Materials Regulations.	

¹ <https://www.phmsa.dot.gov/approvals-and-permits/hazmat/file-serve/offer/SP20600.pdf/offerserver/SP20600>

UN Number and Proper Ship Name: UN3268 Safety Devices, electrically initiated	Authorized Modes of Transport: Motor Vehicle, Rail, Cargo Vessel, Cargo and Passenger aircraft
UN Classification: Class 9 SAFETY DEVICES, electrically initiated 3268 Bundesanstalt für Materialforschung und – prüfung (BAM) Notice D/BAM-1857/19	ADR / RID / IMDG – Code / Special Provision 280 IATA-DGR / Special Provision A115 ICAO-TI
BAM Notice D/BAM-1857/19 modes of transport authorized: motor vehicle, rail, cargo vessel, and cargo and passenger aircraft.	
IMPORTANT NOTE: Shipments to and from the United States of America must follow the CAO Cargo Air Only requirements as described in the US DOT PHMSA Special Permit DOT-SP 20600.	

SECTION 15: Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Phenolic Resin:

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended:
Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended:
Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended:
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended:
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended:
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as Amended:
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization:

Not listed.

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended:

FORMALDEHYDE (CAS 50-00-0):

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

FORMALDEHYDE (CAS 50-00-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended:

FORMALDEHYDE (CAS 50-00-0)

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended:

FORMALDEHYDE (CAS 50-00-0)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances:

FORMALDEHYDE (CAS 50-00-0)

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended:

FORMALDEHYDE (CAS 50-00-0)

Directive 94/33/EC on the protection of young people at work, as amended

FORMALDEHYDE (CAS 50-00-0)

Other regulations

The product is classified and labeled in accordance with EC directives or respective national laws.

National regulations

This preparation is not classified as dangerous according to European Union legislation. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

U.S. INFORMATION

Potassium Nitrate:

TSCA 8(b) inventory: Potassium Nitrate

CALIFORNIA PROPOSITION 65: Potassium Nitrate (CAS 7757-79-1) is not listed.

Clean Water Act (CWA): No product found

Phenolic Resin:

CALIFORNIA PROPOSITION 65: Formaldehyde (CAS 50-00-0) is listed.

Clean Water Act (CWA): Hazardous substance

SECTION 16: Other Information

Comply with manufacturer's installation and maintenance procedures.

Disclaimer: The information contained herein is accurate to the best knowledge and belief of Fireaway Inc., and is intended to describe the product for health, safety, and environmental requirements only. It is not intended and should not be construed as a warranty. Consult Fireaway for further information.