

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• **Tradename: Emergency Fire Containment System**

* 1. IDENTIFICATION

- Product Identifier
- Trade name: EMERGENCY FIRE CONTAINMENT SYSTEM
- Product Number:

<u>MODEL NO.</u>	<u>PART NO.</u>	<u>MODEL NO.</u>	<u>PART NO.</u>	<u>MODEL NO.</u>	<u>PART NO.</u>
30-1008-16BOB	EFCS-16BO-BLK	30-1008-20BOB	EFCS-20BO-BLK	30-1008-24BOB	EFCS-24BO-BLK
30-1008-16BOG	EFCS-16BO-GRY	30-1008-20BOG	EFCS-20BO-GRY	30-1008-24BOG	EFCS-24BO-GRY
30-1008-16BOT	EFCS-16BO-TAN	30-1008-20BOT	EFCS-20BO-TAN	30-1008-24BOT	EFCS-24BO-TAN
30-1008-16SGB	EFCS-16SG-BLK	30-1008-20SGB	EFCS-20SG-BLK	30-1008-24SGB	EFCS-24SG-BLK
30-1008-16SGG	EFCS-16SG-GRY	30-1008-20SGG	EFCS-20SG-GRY	30-1008-24SGG	EFCS-24SG-GRY
30-1008-16SGT	EFCS-16SG-TAN	30-1008-20SGT	EFCS-20SG-TAN	30-1008-24SGT	EFCS-24SG-TAN

- **Relevant identified uses of the substance or mixture and uses advised against:**
To contain and suppress a lithium battery or electronic device which has or may catch on fire.
- **Product Description**
A fire containment bag designed to safely contain and automatically suppress fires and resultant smoke originating from small consumer Personal Electronic Devices, carried on-board aircraft.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
FIRE CONTAINMENT CONCEPTS LLC.
2017 CHAROLAIS ST. N/W
UNIONTOWN OHIO / USA 44685-9218
PHONE: 1-800-877-2204
FAX 1-800-577-8153
- **Emergency telephone number: 1-800-877-2204**

* 2. HAZARD (S) IDENTIFICATION

- **Classification of the substance or mixture:**



GHS04 Gas Cylinder

Pressurized. Gas H280 Contains gas under pressure; may explode if heated.
Simple Asphyxiate May displace oxygen and cause rapid suffocation.

- **Label elements:**

- **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

43.1.2

Hazard Pictograms



GHS04 Gas Cylinder

- **Signal word: Warning**
- **Hazard statements:**
H280 Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

(Continued on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• **Tradename: Emergency Fire Containment System**

***2. HAZARD (S) IDENTIFICATION (Continued)**

• **Precautionary statements:**

P410+P403 Protect from sunlight. Store in a well-ventilated place.

• **Unknown acute toxicity:**

100 % of the mixture consists of component(s) of unknown toxicity.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

• **HMS-ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

• **Hazard(s) not otherwise classified (HNOC): None known**

*3. Composition/Information on Ingredients

• **Non-hazardous components:**

COLDFIRE 302AS-Extinguishing Medium

Various high temperature textiles including fiberglass and Kevlar.

• **Chemical characterization: Substance**


• **CAS No. Description**

• **Additional information:**

The Emergency Fire Containment System consist of a fire resistant bag constructed of numerous layers of synthetic high temperature textiles sewn together to form an envelope. A suppression system is attached to the bag and is routed to deploy within the bag to extinguish a fire within. The suppression system consists of:

1. A Stainless Steel Department of Transportation Certified 4B Cylinder 3" W x 10.45" L or 12.47" in Length.
2. Serviced with COLDFIRE 302AS extinguishing medium 26 fluid ounces or 24 fluid ounces
3. Pressurized with compressed nitrogen to 175 PSI.
4. An actuator head manufactured from 316 stainless steel routed to deploy within the bag

• **Dangerous Components:**

CAS: 7727-37-9 RTECS: QW 9700000	Nitrogen	 Pressure. Gas, H280 Asphyxiate
-------------------------------------	----------	---

*4. First-Aid Measures

• **Description of first aid measures:**

• **General information:** If end user is in contact with nitrogen gas, follow the first aid measures detailed below:

• **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

• **After skin contact:** Wash with soap and water. If symptoms persist, consult a doctor.

(Continued on page 3)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• Tradename: Emergency Fire Containment System

*4. First-Aid Measures (Continued)

- **After eye contact:**
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Not a normal route of entry.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:**
Contact with rapidly expanding gas may cause burns or frostbite.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

*5. Fire-Fighting Measures

Extinguishing media:

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:**
Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
- **Advice for firefighters:**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.
- **Additional information:**
Cool endangered receptacles with water spray.

*6. Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Not required.
Ensure adequate ventilation. Remove persons from danger area. Do not inhale gases / fumes / aerosols
- **Environmental precautions:**
Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- **Methods and material for containment and cleaning up:**
Dispose of the collected material according to regulations.
- **Reference to other sections:**
See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

*7. Handling and Storage

- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

(Continued on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• Tradename: Emergency Fire Containment System

***7. Handling & Storage (Continued)**

- **Further information about storage conditions:**
Store in cool, dry conditions in well-sealed receptacles
- **Specific end use(s):**
No further relevant information available.

***8. Additional Controls/ Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**

7727-37-9 Nitrogen	
TLV	withdrawn TLV, see App. F; simple asphyxiate

- **Additional information:**
The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Wear fire resistant gloves provided
- **Eye protection:**
Not required.

***9. Additional Controls/ Personal Protection**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Solid
- **Color:** Not determined.
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** Not determined.
- **Flash point:** None
- **Flammability (solid, gaseous):** Not determined.
- **Ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Not determined.3.1.2
- **Danger of explosion:** Not determined.
- **Explosion limits:**
 - Lower: Not determined.
 - Upper: Not determined.
- **Vapor pressure:** Not determined.
- **Density:**
- **Relative density:** Not determined.

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• Tradename: Emergency Fire Containment System

*9. Additional Controls/ Personal Protection (Continued)

- **Vapor density:** Not determined.
- **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
- **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.
- **Other information:** No further relevant information available.

*10. Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*11. Toxicology Information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):** Substance is not listed.
- **NTP (National Toxicology Program):** Substance is not listed.
- **OSHA-Ca (Occupational Safety & Health Administration):** Substance is not listed.

*12. Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bio accumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.
- **Waste treatment methods:**

(Continued on page 6)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• **Tradename: Emergency Fire Containment System**

*13. Disposal Considerations

- **Recommendation:**
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging's**
- **Recommendation:** Disposal must be made according to official regulations.

*14. Transportation Information

- **UN-Number:** UN1044
- DOT, ADR, IMDG, IATA
- UN proper shipping name:
• DOT **Fire extinguishers**
- ADR UN1044 Fire extinguishers
- IMDG, IATA FIRE EXTINGUISHERS
- Transport hazard class(es):
- DOT



- Class: 2.2
- Label: 2.2

• ADR, IMDG, IATA



- Class: 2.2
- Label: 2.2
- Packing group:
- DOT, ADR, IMDG, IATA Non-Regulated Material
- Environmental hazards: Not applicable.
- Special precautions for user: Not applicable.
- EMS Number: F-C, S-V
- Stowage Category A
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable
- ADR
- Excepted quantities (EQ): Code: E0
- Not permitted as Excepted Quantity
- UN "Model Regulation": UN 1044 FIRE EXTINGUISHERS, 2.2

*15. Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA (Superfund Amendments and Reauthorization):
- Section 355 (extremely hazardous substances): Substance is not listed. • Section 313
- (Specific toxic chemical listings): Substance is not listed.

(Continued on page 7)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 09/09/2016

Reviewed on 09/09/2016

• **Tradename: Emergency Fire Containment System**

***15. Regulatory Information(Continued)**

- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **California Proposition 65:**
- **Chemicals known to cause cancer:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
- **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
- **Chemicals known to cause developmental toxicity:** Substance is not listed.
- **New Jersey Right-to-Know List:** 7727-37-9 Nitrogen
- **New Jersey Special Hazardous Substance List:** Substance is not listed.
- **Pennsylvania Right-to-Know List:** Substance is not listed.
- **Pennsylvania Special Hazardous Substance List:** Substance is not listed.
- **Carcinogenic categories:**
- **EPA (Environmental Protection Agency):** Substance is not listed.
- **TLV (Threshold Limit Value established by ACGIH):** Substance is not listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health):** Substance is not listed.
- **GHS label elements:**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

• **Hazard pictograms:**



GHS04

- **Signal word: Warning**
- **Hazard statements:**
H280 Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.
- **Precautionary statements:**
- **P410+P403 Protect from sunlight.** Store in a well-ventilated place.
- **National regulations:**
Non-Regulated Material
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

***16. Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 09/09/2016
 - * Data compared to the previous version altered.
- SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106