1 Identification

· Product identifier
  · Trade name: TRIGGERFOAM PRO FIREBLOCK

· Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.

· Application of the substance / the mixture
  Polyurethane foam B2

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Powers Fasteners, Inc.
    2 Powers Lane
    Brewster, NY 10509 / USA
  · Information department:
    Phone +1 800-524-3244
    Fax +1 877-871-1965
  · Emergency telephone number:
    CHEMTREC: +1 703-741-5500 (24h Emergency Contact Information Only)
    USA: 800-424-9300

2 Hazard(s) Identification

· Classification of the substance or mixture
  Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
  Acute Tox. 4 H332 Harmful if inhaled.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  Carc. 2 H351 Suspected of causing cancer.
  Lact. H362 May cause harm to breast-fed children.
  STOT SE 3 H335 May cause respiratory irritation.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

· Label elements
  · GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms
    GHS02 GHS07 GHS08

· Signal word
  Danger

· Hazard-determining components of labeling:
  diphenylmethanediisocyanate, isomers and homologues

· Hazard statements
  Extremely flammable aerosol. Pressurized container: May burst if heated.
  Harmful if inhaled.

(Contd. on page 2)
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause harm to breast-fed children.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
May cause long lasting harmful effects to aquatic life.

**Precautionary statements**
Obtain special instructions before use.
Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter - i.e. type A1 according to standard EN 14387).
Wear protective gloves/protective clothing/eye protection.
Do not breathe vapours/spray.
If on skin: Wash with plenty of water/ soap.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Dispose of container to in accordance with local/regional/national/international regulation.

**Classification system:**

**NFPA ratings (scale 0 - 4)**

- Health = 1
- Fire = 0
- Reactivity = 3

**HMIS-ratings (scale 0 - 4)**

- Health = *1
- Fire = 0
- Reactivity = 3

**Other hazards**

- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

**3 Composition/information on ingredients**

**Chemical characterization:** Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>9016-87-9</td>
<td>diphenylmethanediisocyanate,isomers and homologues</td>
<td>45-55%</td>
</tr>
<tr>
<td>115-10-6</td>
<td>dimethyl ether</td>
<td>5-15%</td>
</tr>
<tr>
<td>85535-85-9</td>
<td>alkanes, C14-17, chloro</td>
<td>1-10%</td>
</tr>
<tr>
<td>13674-84-5</td>
<td>tris(2-chloroisopropyl)-phosphate</td>
<td>1-10%</td>
</tr>
<tr>
<td>75-28-5</td>
<td>isobutane</td>
<td>1-10%</td>
</tr>
</tbody>
</table>
Safety Data Sheet
acc. to OSHA HCS

Trade name: TRIGGERFOAM PRO FIREBLOCK

4 First-aid measures

- Description of first aid measures
  - General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - After inhalation:
    Supply fresh air and to be sure call for a doctor.
    In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact:
    If skin irritation continues, consult a doctor.
    Immediately wash with water and soap and rinse thoroughly.
  - After eye contact:
    Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing:
    Immediately call a doctor.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed
      No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed
      No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents:
    Foam
    CO2, sand, extinguishing powder. Do not use water.
  - For safety reasons unsuitable extinguishing agents: Water with full jet
  - Special hazards arising from the substance or mixture
    In case of fire, the following can be released:
    Nitrogen oxides (NOx)
    Carbon monoxide (CO)
    Hydrogen cyanide (HCN)
  - Advice for firefighters
    - Protective equipment: Mouth respiratory protective device.
  - Additional information
    Cool endangered receptacles with water spray.
    Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Keep away from ignition sources
  Ensure adequate ventilation
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  Do not allow to enter sewers/ surface or ground water.
  Inform respective authorities in case of seepage into water course or sewage system.
  Do not allow product to reach sewage system or any water course.
Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to item 13.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents
Ensure adequate ventilation.

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
Ensure that suitable extractors are available on processing machines
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Information about protection against explosions and fires:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurized containers.
Information about storage in one common storage facility:
Do not store together with acids.
Do not store together with alkalis (caustic solutions).
Store away from oxidizing agents.
Further information about storage conditions:
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Protect from humidity and water.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems:
No further data; see item 7.

Control parameters
Components with limit values that require monitoring at the workplace:
9016-87-9 diphenylmethanediisocyanate, isomerses and homologues
WEEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
115-10-6 dimethyl ether
WEEL Long-term value: 1920 mg/m³, 1000 ppm

Additional information: The lists that were valid during the creation were used as basis.
Trade name: TRIGGERFOAM PRO FIREBLOCK

- **Exposure controls**
  - **Personal protective equipment:**
  - **General protective and hygienic measures:**
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Do not inhale dust / smoke / mist.
    Avoid contact with the eyes and skin.
  - **Breathing equipment:**
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
  - **Protection of hands:**

![Protective gloves]

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material**
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:**

![Tightly sealed goggles]

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Aerosol
    - **Color:** According to product specification
    - **Odor:** Characteristic
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** -21 °C (-6 °F)
  - **Ignition temperature:** 199 °C (390 °F)
  - **Auto igniting:** Product is not selfigniting.
Safety Data Sheet  
acc. to OSHA HCS  

Trade name: TRIGGERFOAM PRO FIREBLOCK

10 Stability and reactivity

· Reactivity
· Chemical stability
· Thermal decomposition / conditions to be avoided:  
  No decomposition if used according to specifications.
· Possibility of hazardous reactions  
  Contact with water releases flammable gases.
· Conditions to avoid  
  No further relevant information available.
· Incompatible materials:  
  No further relevant information available.
· Hazardous decomposition products:
  Hydrogen cyanide (prussic acid)
  Carbon monoxide
  Nitrogen oxides (NOx)

11 Toxicological information

· Information on toxicological effects
· Acute toxicity:
  · LD/LC50 values that are relevant for classification:
    115-10-6 dimethyl ether
    Inhalative  \(\text{LC50/4 h} \ 308 \text{ mg/l (rat)}\)
  · Primary irritant effect:
    · on the skin: Irritant to skin and mucous membranes.
    · on the eye: Irritating effect.
  · Sensitization:
    Sensitization possible through inhalation.
    Sensitization possible through skin contact.
· Additional toxicological information:
  The product shows the following dangers according to internally approved calculation methods for preparations:
  Harmful
  Irritant
· Carcinogenic categories
  · IARC (International Agency for Research on Cancer)
    9016-87-9 diphenylmethanediisocyanate,isomers and homologues
12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT: UN1950
  - ADR, IMDG, IATA: 1950
- UN proper shipping name
  - ADR: 1950 AEROSOLS
  - IMDG: AEROSOLS
  - IATA: AEROSOLS, flammable
- Transport hazard class(es)
  - DOT, IMDG, IATA
    - Class: 2.1
    - Label: 2.1
  - ADR
    - Class: 2 5F Gases
Trade name: TRIGGERFOAM PRO FIREBLOCK

· Label 2.1
· Packing group
· DOT, ADR, IMDG, IATA Void
· Environmental hazards:
· Marine pollutant: No
· Special precautions for user Warning: Gases
· EMS Number: F-D,S-U
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
· Transport/Additional information:
· ADR
· Remarks: LQ: 1l
· UN "Model Regulation": UN1950, Aerosols, 2.1

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Sara
· Section 355 (extremely hazardous substances): None of the ingredient is listed.
· Section 313 (Specific toxic chemical listings):
· 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues
· TSCA (Toxic Substances Control Act):
· All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer: None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
· Chemicals known to cause developmental toxicity: None of the ingredients is listed.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
· 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues D;CBD
· TLV (Threshold Limit Value established by ACGIH)
· None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
· None of the ingredients is listed.
· GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).
Trade name: TRIGGERFOAM PRO FIREBLOCK

- **Hazard pictograms**
  - GHS02
  - GHS07
  - GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
  - diphenylmethanediisocyanate, isomers and homologues
- **Hazard statements**
  - Extremely flammable aerosol. Pressurized container: May burst if heated.
  - Harmful if inhaled.
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause an allergic skin reaction.
  - Suspected of causing cancer.
  - May cause harm to breast-fed children.
  - May cause respiratory irritation.
  - May cause damage to organs through prolonged or repeated exposure.
  - May cause long lasting harmful effects to aquatic life.

- **Precautionary statements**
  - Obtain special instructions before use.
  - Keep out of reach of children.
  - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - Do not spray on an open flame or other ignition source.
  - Do not pierce or burn, even after use.
  - In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter - i.e. type A1 according to standard EN 14387).
  - Wear protective gloves/protection clothing/eye protection.
  - Do not breathe vapours/spray.
  - If on skin: Wash with plenty of water/soap.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF exposed or concerned: Get medical advice/attention.
  - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
  - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
  - Dispose of container to in accordance with local/regional/national/international regulation.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 06/08/2015 / -
- **Abbreviations and acronyms:**
  - Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
  - Carc. 2: Carcinogenicity, Hazard Category 2
  - Lact.: Reproductive toxicity, Additional category, Effects on or via lactation
  - STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
  - STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
  - Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4