



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

IDENTIFICATION OF THE MIXTURE

TRADE/MATERIAL NAME:

SmokeBlock Fireblocking Foam

INTENDED USE:

Fireblock & Draftstop Foam

SUPPLIER/MANUFACTURERS NAME:

Specified Technologies Inc.

Address:

210 Evans Way,
Somerville, New Jersey 08876

Business Phone:

(908) 526-8000 (8:00am to 5:00pm Eastern Standard Time)

Emergency Phone:

U.S., Canada: 1-800-255-3924 (24 hrs)

International: +1-813-248-0585 (collect-24 hrs)

EMAIL of Competent Person for Information on SDS: techserv@stifirestop.com

2. HAZARD IDENTIFICATION

Classification: Acute Toxicity - Dermal - Category 4, Acute Toxicity - Inhalation - Category 4, Acute Toxicity - Oral - Category 4, Carcinogenicity - Category 2, Eye Damage/Irritation - Category 2a, Flammable Aerosols - Category 1, Sensitization - Respiratory - Category 1a Sensitization - Skin - Category 1 Skin Corrosion/Irritation - Category 2 Specific Target Organ Toxicity (Repeated Exposure) - Category 2 Specific Target Organ Toxicity (Single Exposure) - Category 3

Signal Word: Danger

Hazard Statements: Causes serious eye irritation Causes skin irritation Extremely flammable aerosol Harmful if inhaled Harmful if swallowed Harmful in contact with skin May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation Suspected of causing cancer.

Precautionary Statements:

Prevention: Avoid breathing dust/fume/gas/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Do not spray on an open flame or other ignition source. In case of inadequate ventilation wear respiratory protection. Keep away from heat. Obtain special instructions before use. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear eye protection/face protection. Wear protective gloves/protective clothing.

Response: Call a poison center or doctor if you feel unwell. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. Specific treatment (see label) Take off contaminated clothing and wash it before reuse. Take off immediately all contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.

Pictogram:



Storage: Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container in accordance with local, state and federal regulations.

Ingredients of unknown: 0%

Toxicity:

Hazards not Otherwise Classified

Other Hazards: Contains isocyanates. See information supplied by the manufacturer. Allergic sensitization may be possible with isocyanates. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

3. COMPOSITION and INFORMATION ON INGREDIENTS

CAS	Ingredient Name	Weight %
74-98-6	Propane	< 10 %
75-28-5	Isobutane	< 20 %
13674-84-5	Trichorylpropylene Phosphate	< 25 %
63449-39-8	Chlorinated paraffin waxes and hydrocarbon waxes	< 25 %
9016-87-9	Polymeric diphenylmethane diisocyanate	> 25 %

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST-AID MEASURES

Description of necessary measures: IF exposed or concerned: Get medical advice/attention; Call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell.

Inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician. Specific treatment (see label). If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin: IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes: 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.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Most Important Symptoms/Effects:

Acute: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Delayed: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: respiratory tract.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water, carbon dioxide

Unsuitable Extinguishing Media: None known

Special Hazards Arising from the Chemical: Extremely flammable aerosol

Hazardous Combustion Products: Oxides of carbon, Phosphorus oxides, hydrogen cyanide, hydrogen chloride. May polymerize when heated.

Special Protective Equipment and Precautions for Firefighters: Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn even after use. Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures: Danger of explosion. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not allow to enter into surface water or drains.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment recommended in Section 8 of the SDS. Do not smoke when using this product or handle near an open flame or sparks. Use explosion-proof electrical/ventilating/lighting equipment.

Methods and Materials for Containment and Cleaning Up: Do not pierce or burn, even after use.

Environmental Precautions: Do not allow to enter into surface water or drains. Dike for later disposal.

7. HANDLING and USE

Precautions for Safe Handling: Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/clothing and eye/face protection. Take off contaminated clothing and wash before re-use. Contaminated work clothing should not be allowed out of the workplace. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

Well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use explosion-proof electrical/ventilating/lighting equipment.

Conditions for Safe Storage, Including any Incompatibilities: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Ensure adequate ventilation of the storage area. Maximum storage period (time): 1 year.

Incompatible Materials: Heat, strong acids, strong bases, Amines. Keep away from all ignition sources

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Occupational Exposure Limits:

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Propane	1000 ppm TWA	1000 ppm PEL	N/A
Isobutane	1000 ppm	N/A	1000 ppm
Trichorylpropylene Phosphate	N/A	N/A	N/A
Chlorinated paraffin waxes and hydrocarbon waxes	N/A	N/A	N/A
Polymeric diphenylmethane diisocyanate	0.005 ppm	0.02 mg/m ³	N/A

Personal Protective Equipment: Goggles, Gloves

Component Exposure Limits: Isobutane (75-28-5) ACGIH: 1000 ppm STEL NIOSH: 800 ppmTWA; 1900 mg/m³TWA Propane (74-98-6) ACGIH: 1000 ppm TWA NIOSH: 1000 ppmTWA; 1800 mg/m³TWA; 2100 ppmIDLH (10% LEL) OSHA (US): 1000 ppmTWA; 1800 mg/m³TWA

Biological limit value: There are no biological limit values for any of this product's components.

Engineering Controls: Use explosion-proof electrical/ventilating/lighting equipment. Keep away from heat/sparks/open flames/hot surfaces.

Individual Protection Measures, such as Personal Protective Equipment:

Eye/face protection: Wear splash resistant safety goggles.

Skin Protection: Wear suitable protective clothing and gloves.

Respiratory Protection: Use a respirator with an organic vapor cartridge for concentrations exceeding the occupational exposure limit

Glove Recommendations: Recommended material type: LOW DENSITY POLYETHYLENE

9. PHYSICAL and CHEMICAL PROPERTIES

Physical State	Aerosol
Color	Red
Odor	Characteristic
Odor Threshold	Not available
Solubility	Insoluble in water
Partition coefficient Water/n-octanol	Not available
VOC%	26%
Viscosity	No data available
Specific Gravity	No data available
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not available
FP Method	N/A
pH	Not available
Melting Point	No data available
Boiling Point	No data available
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	Not available
Flammability	Not available
Decomposition Temperature	Not available
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	No data available

Note: The above information is not intended for use in preparing product specifications. Contact Specified Technologies, Inc. before writing specifications.

10. STABILITY and REACTIVITY

Reactivity: May polymerize when heated.

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions: May polymerize when heated.

Conditions to Avoid: Avoid contact with incompatible materials. Keep away from heat/sparks/open flame/hot surfaces - No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use.

Incompatible Materials: Heat, strong acids, strong bases, Amines, Keep away from all ignition sources.

Thermal Decomposition Products: Oxides of carbon, oxides of phosphorus, hydrogen cyanide, hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:

Inhalation: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Skin Contact: Harmful in contact with skin. May cause allergic skin reaction. Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed.

Acute and Chronic Toxicity: Component Analysis - LD50/LC50 The components of this material have been reviewed in various sources and the following selected endpoints are published: Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) Inhalation LC50Rat 490 mg/m³ 4 h 2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5) Oral LD50Rat 500 mg/kg Dermal LD50Rabbit 1230 mg/kg Inhalation LC50Rat 5 mg/L 4 h Isobutane (75-28-5) Inhalation LC50Rat 658 mg/L 4 h Propane (74-98-6) Inhalation LC50Rat 658 mg/L 4 h

Immediate Effects: Harmful in contact with skin. Causes serious eye irritation. Harmful if swallowed. May cause damage to organs. Causes skin irritation.

Delayed Effects: May cause allergic skin reaction. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Irritation/Corrosivity Data: Causes serious eye irritation. Causes skin irritation.

Respiratory Sensitization: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

Dermal Sensitization: May cause allergic skin reaction.

Germ Cell Mutagenicity: No data available.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity - Single Exposure heart.

Specific Target Organ Toxicity - Repeated Exposure respiratory system.

Aspiration hazard: No data available

Component Carcinogenicity: Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

IARC: Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable)) DFG: Category 4 (no significant contribution to human cancer) Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)

IARC: Monograph 48 [1990] (Group 2B (possibly carcinogenic to humans)) DFG: Category 3B (could be carcinogenic for man)

Medical Conditions Aggravated by Exposure: OSHA: Present eye disorders, respiratory disorders, heart disorders, skin disorders and allergies. May produce an allergic reaction. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

12. ECOLOGICAL INFORMATION

Component Analysis Aquatic Toxicity: 2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5) Fish:

LC50 96 h Brachydanio rerio 56.2 mg/L [static]; LC50 96 h Pimephales promelas 98 mg/L [static]; LC50 96 h Poecilia reticulata 30 mg/L [static] Algae: EC50 72 h Desmodesmus subspicatus 45 mg/L IUCLID; EC50 96 h

Pseudokirchneriella subcapitata 4 mg/L IUCLID Invertebrate: EC50 48 h Daphnia magna 63 mg/L IUCLID Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8) Fish: LC50 96 h Lepomis macrochirus >300 mg/L [static]; LC50 96 h Oncorhynchus mykiss >0.0109 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 94.5 -271 mg/L [static]; LC50 96 h Lepomis macrochirus >0.1 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of contents/container in accordance with local/regional/national /international regulations. Do not allow to enter into ground-water, surface water or drains.

14. TRANSPORTATION INFORMATION

UN Number: 1950

UN Proper Shipping Name: AEROSOLS

DOT Classification: Hazard Class 2.1

Packing Group: 2.1

15. REGULATORY INFORMATION

U.S. Federal Regulations: This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan. Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) SARA 313: 1 % de minimis concentration SARA Section 311/312 (40 CFR 370 Subparts B and C) Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: Yes Reactivity: Yes

U.S. State Regulations: The following components appear on one or more of the following state hazardous substances lists:

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9) NJ Propane (74-98-6) MA, MN, NJ, PA Isobutane (75-28-5) MA, NJ, PA. Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL): The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

WHMS Classification: B5, D2A, D2B

16. OTHER INFORMATION

HMIS and NFPA Rating:

HMIS

Health: 2*

Fire: 3

Reactivity: 3

NFPA

Health: 2

Fire: 3

Reactivity: 3

Hazard Scale:

0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

*Chronic hazard

The information contained herein is based on data available to us and is accurate and reliable to the best of our knowledge and belief. However, Specified Technologies, Inc. makes no representations as to its completeness or accuracy. Information is supplied on condition that persons receiving such information will make their own determination as to its suitability for their purposes prior to use.

Prepared by: Specified Technologies, Inc

Preparation Date: 8/10/18

Version: 1