LENTEK™ Fireblock Insulating Foam Sealant

SECTION 1: Identification

1.1. Identification

Product form: Mixture

Product name: LENTEK™ Fireblock Insulating Foam Sealant

1.2. Recommended use and restrictions on use

Use of the substance/mixture: Insulation foam adhesives

1.3. Supplier

Manufacturer
Lentus LLC
400 Ring Road
Elizabethtown, KY 42701
USA
+1-270-765-2212

1.4. Emergency telephone number

Emergency number: Chemtrec: 800-424-9300 (US) or +1-703-527-3887 (International)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flam. Aerosol 1	Extremely flammable aerosol
Acute Tox. 2 (Inhalation:vapour)	Fatal if inhaled
Skin Irrit. 2	Causes skin irritation
Eye Irrit. 2A	Causes serious eye irritation
Resp. Sens. 1	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sens. 1A	May cause an allergic skin reaction
Lact.	May cause harm to breast-fed children
STOT SE 3	May cause respiratory irritation
STOT RE 2	May cause damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US):

Signal word (GHS US): Danger

Hazard statements (GHS US):
Extremely flammable aerosol
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
Fatal if inhaled
May cause an allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation
May cause harm to breast-fed children
May cause damage to organs through prolonged or repeated exposure

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Precautionary statements (GHS US): Obtain special instructions before use.
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.
Do not breathe dust/fume/gas/mist/vapors/spray.
Avoid contact during pregnancy/while nursing.
Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Wear respiratory protection.
If exposed or concerned: Get medical advice/attention.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center or doctor.
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.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
20% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (vapors)

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Name	Product identifier	%
Isocyanic acid, polymethylenepolyphenylene ester	CAS-No.: 9016-87-9	< 50
2-Propanol, 1-chloro-, phosphate (3:1)	CAS-No.: 13674-84-5	< 20
Isobutane	CAS-No.: 75-28-5	< 15

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment: Stop leak if safe to do so. Remove all sources of ignition. Collect spillage. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for cleaning up: Mechanically recover the product. Provide ventilation.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection."

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Do not pierce or burn, even after use. Hazardous waste due to potential risk of explosion.

Precautions for safe handling: 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. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapors. Do not swallow. When using do not eat, drink or smoke. Avoid contact during pregnancy/while nursing. Handle and open container with care. Use only outdoors or in a well-ventilated area.

Hygiene measures: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the work place. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions: Keep out of the reach of children. Store locked up. Keep in fireproof place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Keep away from clothing and other combustible materials. Store tightly closed in a dry, cool and well-ventilated place.

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general:	May cause harm to breast-fed children. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after inhalation:	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid after skin contact:	IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs:Get medical advice/attention.
First-aid measures after eye contact:	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.
First-aid measures after ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation:	Fatal if inhaled. May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact:	Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact:	Causes serious eye irritation. Symptoms may include discom fort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms:	May cause damage to organs through prolonged or repeated exposure.

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	Foam, powder, carbon dioxide (CO2), water spray.
Unsuitable extinguishing media:	None known

5.2. Specific hazards arising from the chemical

Fire hazard:	Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon.
Explosion hazard:	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions:	Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
Protection during firefighting:	Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

LENTEK Fireblock Insulating Foam Sealant	
No additional information available	
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
No additional information available	
Alkanes, C14-17, chloro (85535-85-9)	
No additional information available	
Isobutane (75-28-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isobutane
ACGIH OEL STEL [ppm]	1000 ppm (EX - Explosion hazard)
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2021

8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Wear suitable gloves resistant to chemical penetration

Eye protection: Wear eye/face protection

Skin and body protection: Wear suitable protective clothing

Respiratory protection: Wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Liquid under pressure (Aerosol)
Color:	Orange
Odor:	Characteristic
Odor threshold:	No data available
pH:	No data available
Melting point:	Not applicable
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Relative evaporation rate (butyl acetate=1):	No data available
Flammability (solid, gas):	Extremely flammable aerosol
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	No data available
Density:	17 – 23 kg/m³
Solubility:	No data available

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9.1. Information on basic physical and chemical properties (continued)

Partition coefficient n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosion limits:	No data available
Explosive properties:	Pressurized container: may burst if heated
Oxidizing properties:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat, Incompatible materials, Sparks, Open flame, Direct sunlight

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. May include, and are not limited to: oxides of carbon

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Fatal if inhaled.

LENTEK FireBlock Insulating Foam Sealant	
ATE US (vapors)	0.98 mg/l/4h
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
LD50 oral rat	49 g/kg
LD50 dermal rabbit	> 9.4 g/kg
LC50 inhalation rat	490 mg/m³ (Exposure time: 4 h)
ATE US (oral)	49000 mg/kg body weight
ATE US (gases)	100 ppmV/4h
ATE US (vapors)	0.49 mg/l/4h
ATE US (dust, mist)	0.49 mg/l/4h

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2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat	> 5.05 mg/l/4h
ATE US (oral)	1500 mg/kg body weight
Isobutane (75-28-5)	
LC50 inhalation rat	> 800000 ppm (Exposure time: 15 min)

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitization:	May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
IARC group	3 - Not classifiable
Reproductive toxicity:	May cause harm to breast-fed children.
STOT-single exposure:	May cause respiratory irritation.
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
STOT-single exposure:	May cause respiratory irritation.
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:	Not classified
Viscosity, kinematic:	No data available
Symptoms/effects after inhalation:	Fatal if inhaled. May cause respiratory irritation. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact:	Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
Symptoms/effects after eye contact:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion:	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms:	May cause damage to organs through prolonged or repeated exposure.
Other information:	Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: May cause long-term adverse effects in the aquatic environment.

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
LC50 - Fish [1]	56.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 - Crustacea [1]	63 mg/l (Exposure time: 48 h - Species: Daphnia magna)

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2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5) Continued...	
LC50 - Fish [2]	98 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
NOEC (chronic)	32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
NOEC chronic fish	5.2 mg/l Test organisms (species): other:

12.2. Persistence and degradability

LENTEK FireBlock Insulating Foam Sealant	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

LENTEK Fireblock Insulating Foam Sealant	
Bioaccumulative potential	Not established.
2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)	
BCF - Fish [1]	1.9 – 4.6
Partition coefficient n-octanol/water	2.59
Isobutane (75-28-5)	
BCF - Fish [1]	1.57 – 1.97
Partition coefficient n-octanol/water	2.88 (at 20 °C)

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
Other information: No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods
Product/Packaging disposal recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimized wherever possible.

Additional information: Flammable vapors may accumulate in the container. Empty containers may contain residues which are hazardous. Container under pressure. Do not drill or burn even after use.

Ecology - waste materials: Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number
DOT NA No: UN1950

14.2. UN proper shipping name
Proper Shipping Name (DOT): Aerosols

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14.3. Transport hazard class(es)
DOT
Transport hazard class(es) (DOT): 2.1
Hazard labels (DOT): 2.1

14.4. Packing group
Packing group (DOT): Not applicable

14.5. Environmental hazards
Other information: No supplementary information available.

14.6. Special precautions for user
Special transport precautions: Do not handle until all safety precautions have been read and understood.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations
All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations
No additional information available

15.3. US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
Issue date: 10/05/2021
Revision date: 10/05/2021
Other information: None.
Prepared by: Nexreg Compliance Inc.
www.Nexreg.com

Full text of H-phrases	
Acute Tox. 2 (Inhalation:vapour)	Acute toxicity (inhalation:vapor) Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Aerosol 1	Flammable aerosol Category 1
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1A	Skin sensitization, Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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Safety Data Sheet (SDS), USA

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