



UNFACED RIGID POLYISOCYANURATE FOAM

Safety Data Sheet

according to US HazCom 2012

Issue date: 6 June 2024 Revision date: 6 June 2024 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Article
Trade name : Tarecpir (densities 2.0, 2.5, 2.5 HT, 3, 4, 6 lb/ft³)
Tarecpir 360 (densities 2.0, 2.5, HT 2.5, 3, 4, 6 lb/ft³)

1.2. Recommended use and restrictions on use

Recommended use : Insulation

1.3. Supplier

Kingspan Insulation LLC
6120 Powers Ferry Road NW Suite 350
Atlanta, Georgia 30339
www.kingspaninsulation.us
Customer service: 1-800-241-4402

1.4. Emergency telephone number

Emergency number : Customer service: 1-800-241-4402

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This product conforms to the U.S. Occupational Safety and Health Administration (OSHA) Hazard Communication Standard's definition of an "Article," i.e., "...a manufactured item: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent ... upon its shape or design ...; and (iii) which does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical and does not pose a physical hazard or health risk to employees." [29 CFR 1910.1200- 2012 (c)].
Combustible product.
Cutting, grinding and sawing can cause the formation of dust. To reduce the potential of dust explosions, do not permit dust to accumulate, provide adequate ventilation and practice good housekeeping procedures.

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Product is a manufactured article. Exposure to hazardous ingredients is not expected with normal use.

Name	Product identifier	%	GHS US classification
Modified polyisocyanurate polymer*	CAS-No.: Not assigned	≥ 85	Not classified
cyclopentane	CAS-No.: 287-92-3	< 5	Flam. Liq. 2, H225
Isopentane	CAS-No.: 78-78-4	< 5	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304
Tris (1-chloro-2-propyl) phosphate	CAS-No.: 13674-84-5	≤ 5	Acute Tox. 4 (Oral), H302

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : If product ruptures: Immediately rinse with plenty of water (for at least 15 minutes). Take off immediately all contaminated clothing. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : If product ruptures: Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if ill effect or irritation develops. Rinse immediately with plenty of water for 15 minutes.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : Inhalation of dust may cause irritation of the respiratory system.

Symptoms/effects after skin contact : If product ruptures: May cause irritation to skin.

Symptoms/effects after eye contact : If product ruptures: May cause eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Specific hazards arising from the chemical

Fire hazard	: On combustion forms: Carbon oxides (CO, CO ₂). May form combustible dust concentrations in air
Explosion hazard	: No direct explosion hazard.
Reactivity in case of fire	: Foam will burn if exposed to flame of sufficient heat and intensity.
Hazardous decomposition products in case of fire	: Thermal decomposition can lead to the release of irritating gases and vapors.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid dust formation. Ensure adequate air ventilation
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6.1.1. For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: No additional risk management measures required.

6.1.2. For emergency responders

Protective equipment	: Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: No additional risk management measures required.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust.
Other information	: Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Cutting, grinding and sawing can cause the formation of dust. To reduce the potential of dust explosions, do not permit dust to accumulate, provide adequate ventilation and practice good housekeeping procedures.
Precautions for safe handling	: Avoid handling the packets in a manner that may break or tear the packets open. Ensure good ventilation of the work station. Use good personal hygiene practices.
Hygiene measures	: Always wash hands after handling the product. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety procedures.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool. Protect from moisture. Keep away from ignition sources.
Incompatible materials	: Strong oxidizers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

cyclopentane (287-92-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Cyclopentane
ACGIH OEL TWA	1720 mg/m³
ACGIH OEL TWA	1000 ppm (EX - Explosion hazard)
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2024
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	1720 mg/m³
NIOSH REL TWA	600 ppm
Isopentane (78-78-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Isopentane
ACGIH OEL TWA	1000 ppm
Remark (ACGIH)	TLV® Basis: Narcosis; resp tract irr
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Eye protection:
Not required for normal conditions of use. If product ruptures: Use eye protection according to ISO 16321-1. Safety glasses with side shields
Skin and body protection:
Not required for normal conditions of use. If product ruptures: Wear suitable gloves tested to ISO 374-1
Respiratory protection:
Not required for normal conditions of use. If product ruptures: An approved respirator with N95 (dust) cartridges.

Other information:
Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Rigid tan cellular plastic.
Color	: Tan
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 450 °C (per ASTM D1929)
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Moisture.

10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to the release of irritating gases and vapors.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

cyclopentane (287-92-3)

LC50 Inhalation - Rat	> 25.3 mg/l/4h
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2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

LD50 oral rat	930 – 1550 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (Source: EU_RAR)
LC50 Inhalation - Rat	> 5.05 mg/l/4h
ATE US (oral)	930 mg/kg body weight

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

National Toxicity Program (NTP) Status	Evidence of Carcinogenicity
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Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

Isopentane (78-78-4)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic : Not applicable
Symptoms/effects after inhalation : Inhalation of dust may cause irritation of the respiratory system.
Symptoms/effects after skin contact : If product ruptures: May cause irritation to skin.
Symptoms/effects after eye contact : If product ruptures: May cause eye irritation.
Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Isopentane (78-78-4)

EC50 - Crustacea [1]	2.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
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2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

LC50 - Fish [2]	180 mg/l (Exposure time: 96 h - Species: Leuciscus idus [static])
EC50 - Other aquatic organisms [2]	4 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [1]	45 mg/l (Species: Desmodesmus subspicatus)
EC50 96h - Algae [1]	4 mg/l (Species: Pseudokirchneriella subcapitata)

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12.2. Persistence and degradability

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Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Isopentane (78-78-4)

Partition coefficient n-octanol/water (Log Pow)	4 (at 25 °C (at pH 6.6)
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2-Propanol, 1-chloro-, phosphate (3:1) (13674-84-5)

BCF - Fish [1]	0.8 – 2.8
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Partition coefficient n-octanol/water (Log Pow)	2.68
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the ozone layer	: No additional information available
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated

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DOT	TDG	IMDG	IATA
No supplementary information available			

14.6. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

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, except for:

Modified polyisocyanurate polymer	CAS-No. Not assigned	≥ 85%
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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

Component	State or local regulations
cyclopentane(287-92-3)	U.S. - New Jersey - Right to Know Hazardous Substance List
Isopentane(78-78-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

according to US HazCom 2012

Revision date

: 6 June 2024

Other information

: None.

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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.