

Rivenco IPF All Weather Pro

SECTION 1. IDENTIFICATION

Product Identifier	Rivenco IPF All Weather Pro
Other Means of Identification	Polyurethane Sealant
Recommended Use	Polyurethane Foam Sealant.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	Rivenco Industries Ltd., 150 Curtis Dr., Guelph, On, N1K1N5, Canada, Scott Cambell, 800-565-9936, www.rivenco.com
Supplier Identifier	Rivenco Industries Ltd., 150 Curtis Dr., Guelph, On, N1K1N5, Canada, Scott Cambell, 800-565-9936, www.rivenco.com
Emergency Phone No.	Canutec, 613-996-6666
Date of Preparation	August 03, 2017

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable aerosol - Category 1; Skin irritation - Category 2; Eye irritation - Category 2; Respiratory sensitization - Category 1; Skin sensitization - Category 1; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Extremely flammable aerosol.

Pressurized container: may burst if heated.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Use only outdoors or in a well-ventilated area.

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Wear eye protection/face protection.

Wear protective gloves.

Wash hands and skin thoroughly after handling.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Propane	74-98-6	1.0-10.0	Dimethylmethane	
Isobutane	75-28-5	2.5-10.0	2- methylpropane	
Dimethyl ether	115-10-6	2.5-10.0	Dimethyloxide	
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	13674-84-5	10.0-25.0	Tris (2-chloropropyl) phosphate	
Polymethylene polyphenyl isocyanate	9016-87-9	5.0-20.0	Diphenylmethane diisocyanate, isomers and homologues	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

Ingestion

Do not induce vomiting. Immediately call a Poison Centre or doctor.

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First-aid Comments

If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled and/or on skin: in sensitized people, contact with a very small amount of product can cause an allergic reaction. Symptoms include redness, rash, itching and swelling. This reaction can spread from the hands or arms to the face and body. Repeated exposure will make the reaction worse. Respiratory sensitizer. May cause asthma or an asthma-like reaction in some people.

Immediate Medical Attention and Special Treatment

Target Organs

Skin, respiratory system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Extremely flammable gas. Can easily ignite. Can readily form explosive mixture with air at room temperature. In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; toxic halogenated compounds; extremely hazardous hydrogen cyanide; corrosive, oxidizing nitrogen oxides; corrosive hydrogen chloride.

Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Use water spray to dilute spills to non-flammable mixtures. Use water spray to flush spills away from ignition sources.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe in this product. Prevent all skin contact. Do not get in eyes, on skin or on clothing. Do not swallow. Only

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use where there is adequate ventilation. Avoid release to the environment. Eliminate heat and ignition sources such as sparks, open flames, hot surfaces and static discharge. Post "No Smoking" signs. Do not spray on an open flame or other ignition source. Do not pierce or burn container, even after use.

Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, dry, well-ventilated, out of direct sunlight and away from heat and ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Polymethylene polyphenyl isocyanate	Not established	0.005 ppm	Not established	0.02 ppm	Not established	Not established
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	Not established	Not established	Not established	Not established	Not established	Not established
Dimethyl ether	Not established	Not established	Not established	Not established	1000 ppm	Not established
Isobutane	Not established	1000 ppm	Not established	Not established	Not established	Not established
Propane	Not established	Not established	1000 ppm	Not established	Not established	Not established

Appropriate Engineering Controls

Exhaust directly to the outside, taking any necessary precautions for environmental protection.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Butyl rubber.

Respiratory Protection

Not usually required when working with small quantities.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Dark amber viscous liquid. Particle Size: Not applicable
Odour	Musty
Odour Threshold	Not available
pH	Not applicable
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Flammable gas.
Upper/Lower Flammability or Explosive Limit	26.2% (upper); 1.5% (lower)
Vapour Pressure	550 - 600 kPa
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available

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Solubility	Not available in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	> 230 °C
Decomposition Temperature	Not applicable
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
Molecular Formula	Not applicable
Molecular Weight	Not applicable
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not applicable
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Reacts in the presence of oxidizing agents. May catch fire.

Conditions to Avoid

Heat. High temperatures. Open flames, sparks, static discharge, heat and other ignition sources. Incompatible materials.

Incompatible Materials

Reacts violently with: strong oxidizing agents (e.g. perchloric acid).

Not corrosive to metals.

Hazardous Decomposition Products

Very toxic carbon monoxide, carbon dioxide; toxic halogenated compounds; corrosive hydrogen chloride; extremely hazardous hydrogen cyanide; corrosive phosphorous oxides; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Polymethylene polyphenyl isocyanate	11 mg/L	> 10000 mg/kg (rat)	> 10000 mg/kg (rabbit)
Phosphoric acid, tris(2-chloro-1-methylethyl) ester		630-2000 mg/kg (rat)	> 5000 mg/kg (rabbit)
Dimethyl ether	164000 ppm (rat) (4-hour exposure)		
Isobutane	368000 ppm (mouse)		

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Propane	> 8000000 ppm (rat)		
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Skin Corrosion/Irritation

Human experience and animal tests show moderate or severe irritation.

Serious Eye Damage/Irritation

Human experience and animal tests show serious eye damage.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful based on human experience and animal tests.

Skin Absorption

May be harmful based on human experience and animal tests.

Ingestion

Harmful based on human experience and animal tests.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. Respiratory tract injury has been observed.

Respiratory and/or Skin Sensitization

Respiratory sensitizer. Human experience shows severe asthma or asthma-like symptoms (respiratory sensitization) in a substantial proportion of people exposed at work. Skin sensitizer. Human experience shows allergic skin reactions (skin sensitization) in a substantial proportion of people exposed at work.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Polymethylene polyphenyl isocyanate	Group 3	Not designated	Not Listed	Not Listed
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	Not Listed	Not designated	Not Listed	Not Listed
Isobutane	Not Listed	Not designated	Not Listed	Not Listed
Propane	Not Listed	Not designated	Not Listed	Not Listed

Reasonably anticipated human carcinogen. (Polymethylene polyphenyl isocyanate)

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

No information was located.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

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Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Polymethylene polyphenyl isocyanate	> 1000 mg/L (96-hour)			
Phosphoric acid, tris(2-chloro-1-methylethyl) ester	56.2 mg/L (96-hour)	131 mg/L (Daphnia magna (water flea); 48-hour)		82 mg/L (72-hour)
Dimethyl ether	> 4.1 mg/L (96-hour)	154.9 mg/L (Daphnia magna (water flea); 48-hour)		> 4.4 mg/L (96-hour)

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1950	AEROSOLS	2	
US DOT	1950	AEROSOLS	2	
IATA (Air)	1950	AEROSOLS	2	
IMO (Marine)	1950	AEROSOLS	2	

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

None known.

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

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Part 5. (Isobutane). (Propane). (Dimethyl ether) Part 1A. (Polymethylene polyphenyl isocyanate)

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

California Proposition 65:

This product contains trace amounts of substances, in the form of airborne or unbound particles, known to the State of California to cause cancer or reproductive harm.

Massachusetts, New Jersey, and Pennsylvania Right To Know. (Polymethylene polyphenyl isocyanate). (Phosphoric acid, tris(2-chloro-1-methylethyl) ester). (Dimethyl ether). (Isobutane). (Propane)

SARA Title III - Section 302:

Not applicable.

SARA Title III - Section 311/312:

Acute Health Hazard

Chronic Health Hazard

Fire Hazard

Reactive Hazard

Sudden Release of Pressure Hazard

SARA Title III - Section 313. (Polymethylene polyphenyl isocyanate).

SECTION 16. OTHER INFORMATION

NFPA Rating	Health - 2	Flammability - 3	Instability - 1
SDS Prepared By	Technical Services Department		
Phone No.	800-565-9936		
Date of Preparation	August 03, 2017		
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Revision Indicators	Revision 1		
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).		

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