

SAFETY DATA SHEET

Date of Preparation: November 20, 2019

Section 1: IDENTIFICATION

Product Name: TYTAN PROFESSIONAL AIR SEALING GASKET FOAM

Synonyms: Not available.

Product Use: Sealant.

Restrictions on Use: Not available.

Manufacturer/Supplier: Selena USA, Inc.

486 Century Lane Holland, MI 49423

Emergency Phone: ChemTrec: 1-800-424-9300

Date of Preparation of SDS: November 20, 2019

Section 2: HAZARD(S) IDENTIFICATION

GHS INFORMATION

Classification: Flammable Aerosols, Category 1

Acute Toxicity - Inhalation, Category 4

Skin Irritation, Category 2 Eye Irritation, Category 2A

Sensitization - Respiratory, Category 1

Sensitization - Skin, Category 1 Carcinogenicity, Category 2

Reproductive Toxicity, Effects on or via Lactation

Specific Target Organ Toxicity (Single Exposure), Category 3 - Respiratory

Irritation

Specific Target Organ Toxicity (Repeated Exposure), Category 2

LABEL ELEMENTS

Hazard

Pictogram(s):





Signal Word: Danger

Hazard Extremely flammable aerosol.

Statements: 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.

Precautionary Statements



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Prevention: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. 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 mist, vapours, or spray.

Avoid contact during pregnancy and while nursing.

Wash 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 should not be allowed out of the workplace.

Wear protective gloves, protective clothing and eye protection.

Wear respiratory protection.

Response: IF ON SKIN: Wash with plenty of water.

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.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER or doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.

If eve irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Take off contaminated clothing and wash it before reuse.

Storage: 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.

Disposal: Dispose of contents/container in accordance with applicable regional, national

and local laws and regulations.

Hazards Not Otherwise Classified: Not applicable.

Ingredients with Unknown Toxicity: 12% of this product mixture consists of ingredient(s) of

unknown acute toxicity.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).

This material is considered hazardous by the Hazardous Products Regulations.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS				
Hazardous Ingredient(s)	Common name / Synonyms	CAS No.	% wt./wt.	
Isocyanic acid,	Polymeric Methylene Diphenyl	9016-87-9	10 - 30 *	
polymethylenepolyphenylene ester	Diisocyanate (PMDI)			
Methane, 1,1'-oxybis-	Dimethyl ether	115-10-6	7 - 13 *	
2-Propanol, 1-chloro-, 2,2',2"-	Tri-(2-	13674-84-5	7 - 13 *	



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phosphate	chloroisopropyl)phosphate		
1-Hexanol, 2-ethyl-	2-Ethylhexanol	104-76-7	5 - 10 *
Propane, 2-methyl-	Isobutane	75-28-5	5 - 10 *
Alkanes, C14-17, chloro	Not available.	85535-85-9	3 - 7 *
Propane	Not available.	74-98-6	1 - 5 *

^{*} Actual concentration range(s) withheld as a trade secret.

Section 4: FIRST-AID MEASURES

Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor.

Acute and delayed symptoms and effects: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness. At room temperature, MDI vapors are minimal due to low volatility. However, certain operations may generate vapor or mist concentrations sufficient to cause respiratory irritation and other adverse effects. Such operations include those in which the material is heated, sprayed or otherwise mechanically dispersed. Allergy-prone people who have been sensitized to isocyanates or even have not been previously exposed to isocvanates may experience symptoms at concentrations as low as 0.0014 ppm. Asthma sufferers or people who easily get contact dermatitis should therefore not be exposed to isocyanates. The isocyanate odour does not provide sufficient warning of overexposure due to the high odour thresholds.

Eye Contact:

If in eyes: Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Acute and delayed symptoms and effects: Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. PMDI may cause severe watering, formation of solid particles in the eye fluid, glaucoma, photophobia (sensitivity to light), blepharospasm (uncontrollable winking), conjunctivitis (inflammation of the mucous membranes of the eye lids with possible discharge), keratitis (inflammation of the cornea) and damage the cornea (opacity or clouding).

Skin Contact:

If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Acute and delayed symptoms and effects: May cause an allergic skin reaction. Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching. Prolonged skin contact may cause redness, swelling, blistering and possible skin sensitization (dermatitis). MDI compounds have a mild tanning action on the skin.



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Ingestion: If swallowed: Call a poison center or doctor if you feel unwell. If vomiting

occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset,

nausea, vomiting and diarrhea.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or SDS where possible).

Note to Physicians: Symptoms may not appear immediately.

Section 5: FIRE-FIGHTING MEASURES

FLAMMABILITY AND EXPLOSION INFORMATION

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Containers may explode when heated. Ruptured cylinders may rocket.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire involving Tanks: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Sensitivity to Mechanical Impact: This material is not sensitive to mechanical impact.

Sensitivity to Static Discharge: This material is sensitive to static discharge.

MEANS OF EXTINCTION

Suitable Extinguishing Media: Small Fire: Dry chemical or CO2. Use extinguishing agent

suitable for type of surrounding fire.

Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus.

Hydrogen chloride. Chlorine. Hydrogen cyanide. Isocyanate

vapours.

Protection of Firefighters: Vapors may cause dizziness or asphyxiation without warning.

Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire may produce irritating, corrosive and/or toxic gases. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective

clothing that is specifically recommended by the

manufacturer. It may provide little or no thermal protection.



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Structural firefighters' protective clothing will only provide limited protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: As an immediate precautionary measure, isolate spill or leak area

> for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of low areas. Ventilate closed spaces before entering. Do not touch or

walk through spilled material.

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined

areas.

Methods for Containment: Stop leak if you can do it without risk. Do not direct water at spill

> or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. If possible, turn leaking containers so that gas escapes

rather than liquid.

Methods for Clean-Up: Allow substance to evaporate. Ventilate the area.

Other Information: See Section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Handling:

Do not swallow. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 mist, vapours, or spray. Avoid contact during pregnancy and while nursing. Wash 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 should not be allowed out of the workplace. See Section 8 for information on Personal Protective Equipment.

Storage:

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. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines Component

Polymeric Methylene Diphenyl Diisocyanate (PMDI) [CAS No. 9016-87-9]

ACGIH: No TLV established.



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OSHA: No PEL established.

Dimethyl ether [CAS No. 115-10-6]

ACGIH: No TLV established.

OSHA: No PEL established.

Tri-(2-chloroisopropyl)phosphate [CAS No. 13674-84-5]

ACGIH: No TLV established. **OSHA:** No PEL established.

2-Ethylhexanol [CAS No. 104-76-7]

ACGIH: No TLV established.

OSHA: No PEL established.

Isobutane [CAS No. 75-28-5]

ACGIH: 1000 ppm (STEL); Explosion hazard (2012)

OSHA: No PEL established.

Alkanes, C14-17, chloro [CAS No. 85535-85-9]

ACGIH: No TLV established. **OSHA:** No PEL established.

Propane [CAS No. 74-98-6]

ACGIH: Simple asphyxiant; Explosion hazard

OSHA: 1000 ppm (TWA), 1800 mg/m³ (TWA); For Propane.

PEL: Permissible Exposure Limit TLV: Threshold Limit Value TWA: Time-Weighted Average STEL: Short-Term Exposure Limit

C: Ceiling

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels

of dust, fume, vapour, gas, etc.) below recommended

exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection: Wear chemical safety goggles. Ensure that eyewash

stations are close to the workstation location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

Hand Protection: Wear protective gloves. Consult manufacturer specifications

for further information.



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Skin and Body Protection: Wear protective clothing.

Respiratory Protection: Wear respiratory protection. If engineering controls and

ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying

respirators.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to

ensure adequate protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid under pressure.

Colour: Light yellow.

Odour: Characteristic.

Odour Threshold: Not available.

Physical State: Liquid.

pH: Not available.

Melting Point / Freezing

Point:

Not available.

Initial Boiling Point: Not available.

Boiling Range: Not available.

Flash Point: Not available.

Evaporation Rate: Not available.

Flammability (solid, gas): Not applicable.

Lower Flammability Limit: Not available.

Upper Flammability Limit: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Relative Density: Not available.

Solubilities: Not available.

Partition Coefficient: n-

Octanol/Water:

Not available.



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Auto-ignition Temperature: Not available.

Decomposition Not available.

Temperature:

Viscosity:

Percent Volatile, wt. %:

VOC content, wt. %:

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Distribution:

Section 10: STABILITY AND REACTIVITY

Reactivity: Contact with incompatible materials. Sources of ignition. Exposure to

heat.

Chemical Stability: Stable under normal storage conditions.

Possibility of Hazardous

Reactions:

None known.

Conditions to Avoid: Contact with incompatible materials. Sources of ignition. Exposure to

heat.

Incompatible Materials: Acids. Bases. Oxidizers. Alkali metals. Metals. Amines. Alcohols.

Hazardous Decomposition Products: Isocyanate vapours. Carbon dioxide.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Toxicity

Oral: Not available.

Dermal: Not available.

Inhalation: Not available.

Component Toxicity

Component CAS No. LD₅₀ oral LD50 dermal LC50 Polymeric Methylene 490 mg/m³ (rat); 9016-87-9 49000 mg/kg > 9400 mg/kgDiphenyl Diisocyanate (rat) (rabbit) 4H (PMDI) Dimethyl ether 115-10-6 Not available. Not available. 308000 mg/m³ (rat): Tri-(2-13674-84-5 1500 mg/kg Not available. Not available. chloroisopropyl)phosphate (rat) 2-Ethylhexanol 3730 mg/kg 1970 mg/kg > 2000 ppm (rat);104-76-7 (rabbit) (rat) 6H Not available. Isobutane 75-28-5 Not available. 570000 ppm (rat); 15M



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Alkanes, C14-17, chloro 85535-85-9 Not available. Not available. Not available. Propane 74-98-6 Not available. Not available. Not available.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs.

Cardiovascular system. Central nervous system.

Symptoms (including delayed and immediate effects)

Inhalation:

Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Excessive inhalation may cause headache, dizziness, confusion, loss of appetite and/or loss of consciousness. At room temperature, MDI vapors are minimal due to low volatility. However, certain operations may generate vapor or mist concentrations sufficient to cause respiratory irritation and other adverse effects. Such operations include those in which the material is heated, sprayed or otherwise mechanically dispersed. Allergy-prone people who have been sensitized to isocyanates or even have not been previously exposed to isocyanates may experience symptoms at concentrations as low as 0.0014 ppm. Asthma sufferers or people who easily get contact dermatitis should therefore not be exposed to isocyanates. The isocyanate odour does not provide sufficient warning of overexposure due to the high odour thresholds.

Eye:

Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. PMDI may cause severe watering, formation of solid particles in the eye fluid, glaucoma, photophobia (sensitivity to light), blepharospasm (uncontrollable winking), conjunctivitis (inflammation of the mucous membranes of the eye lids with possible discharge), keratitis (inflammation of the cornea) and damage the cornea (opacity or clouding).

Skin:

May cause an allergic skin reaction. Causes skin irritation. Signs/symptoms may include localized redness, swelling, and itching. Prolonged skin contact may cause redness, swelling, blistering and possible skin sensitization (dermatitis). MDI compounds have a mild tanning action on the skin.

Ingestion:

May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Skin Sensitization:

Hazardous by OSHA/WHMIS criteria. May cause sensitisation

through skin contact.

Respiratory Sensitization:

Hazardous by OSHA/WHMIS criteria. May cause sensitisation

through inhalation.

Medical Conditions
Aggravated By Exposure:

Not available.

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Blood.



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Cardiovascular system. Spleen. Liver. Kidneys. Reproductive system.

Central nervous system. Immune system.

Chronic Effects: Hazardous by OSHA/WHMIS criteria. May cause chronic effects.

Prolonged or repeated contact may dry skin and cause irritation. Exposure to 2-Ethylhexanol may cause liver and kidney damage. Repeated exposure may cause damage to the spleen and blood effects, and allergic reactions in sensitive individuals. Exposure to high concentrations of 2-Ethylhexanol may cause central nervous system

depression.

Carcinogenicity: May cause cancer.

Component Carcinogenicity

ComponentACGIHIARCNTPOSHAProp 65Polymeric Methylene DiphenylNot listed.Group 3Not listed.Not listed.Not listed.

Diisocyanate (PMDI)

4,4'-Diphenylmethane Not listed. Group 3 Not listed. Not listed. Not listed.

diisocyanate (MDI)

Mutagenicity: Not available.

Reproductive Effects: May cause harm to breast-fed children. Avoid contact during

pregnancy and while nursing. Not available.

Developmental Effects

Teratogenicity: 2-Ethylhexanol has been reported to be teratogenic in laboratory rats.

Embryotoxicity: Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Other Adverse Effects: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Disposal should be in accordance with applicable regional, national

and local laws and regulations. Local regulations may be more

stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)

Proper Shipping Name: UN1950, AEROSOLS, 2.1

Class: 2.1



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UN Number: UN1950

Packing Group: Not applicable.

Label Code:

FLAMMABLE GAS 2

Canada Transportation of Dangerous Goods (TDG)

Proper Shipping Name: UN1950, AEROSOLS, 2.1

Class: 2.1

UN Number: UN1950

Packing Group: Not applicable.

Label Code:



Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III

Component	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	Not listed.	Not listed.	Not listed.	313#	Not listed.	Not Élisted.
Dimethyl ether	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000
Propane	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.	10000



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State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	Listed.
Dimethyl ether	115-10-6	Listed.
2-Ethylhexanol	104-76-7	Listed.
Isobutane	75-28-5	Listed.
Propane	74-98-6	Listed.

Note: E = Extraordinarily Hazardous Substance

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	Listed.
Dimethyl ether	115-10-6	SHHS
Isobutane	75-28-5	SHHS
Propane	74-98-6	SHHS

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) Component CAS No. **RTK List** Polymeric Methylene Diphenyl Diisocyanate (PMDI) 9016-87-9 Not listed. Dimethyl ether Listed. 115-10-6 2-Ethylhexanol 104-76-7 Listed. Isobutane 75-28-5 Listed. Propane 74-98-6 Listed.

Note: E = Environmental Hazard

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

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Version: 1.0

GHS SDS Prepared by: Selena Labs Sp. z o.o.

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