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# SAFETY DATA SHEET

#### 1. Identification

Material name: TPA LV SINGLE PLY BONDING ADHESIVE 5 GL

Material: 505410 805

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

WATERPROOFING TECHNOLOGIES INC.

3735 Green road

**CLEVELAND OH 44124** 

US

Contact person:

EH&S Department

Telephone:

**Emergency telephone number:** 

1-800-424-9300 (US); 1-613-996-6666 (Canada)

# 2. Hazard(s) identification

#### **Hazard Classification**

**Physical Hazards** 

Flammable liquids Category 2

**Health Hazards** 

Toxic to reproduction Category 2

**Unknown toxicity - Health** 

Acute toxicity, oral 0 %
Acute toxicity, dermal 1 %
Acute toxicity, inhalation, vapor 98 %
Acute toxicity, inhalation, dust or mist 100 %

**Unknown toxicity - Environment** 

Acute hazards to the aquatic 26 % environment

Chronic hazards to the aquatic

100 %

environment

#### **Label Elements**

# **Hazard Symbol:**



Signal Word:

Danger



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**Hazard Statement:** 

Highly flammable liquid and vapor.

Suspected of damaging fertility or the unborn child.

**Precautionary** Statement: Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground/bond container

and receiving equipment. Use explosion-proof

electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective

gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Use personal protective equipment as required.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower. If exposed or concerned: Get medical

advice/attention. In case of fire: Use ... to extinguish.

Storage:

Store in well-ventilated place. Keep cool. Store locked up.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)⁺	
Acetone	67-64-1	60 - 100%	
Methyl ethyl ketone	78-93-3	3 - 7%	
Toluene	108-88-3	1 - 5%	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

Ingestion:

Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Inhalation:

Move to fresh air.

**Skin Contact:** 

Take off immediately all contaminated clothing. Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye contact:

Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses. If eye irritation persists: Get

medical advice/attention.

#### Most important symptoms/effects, acute and delayed

Symptoms:

Respiratory tract irritation.



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# Indication of immediate medical attention and special treatment needed

**Treatment:** 

Get medical attention if symptoms occur.

# 5. Fire-fighting measures

**General Fire Hazards:** 

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical:

Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

# Special protective equipment and precautions for firefighters

Special fire fighting procedures:

No data available.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning up:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.



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### 7. Handling and storage

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Store in a cool place. Store locked up.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	type	Exposure Limit Values 500 ppm		Source US. ACGIH Threshold Limit Values (2011)	
Acetone	TWA				
	STEL	750 ppm		US. ACGIH Threshold Limit Values (2011)	
	PEL	1,000 ppm	2,400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
Methyl ethyl ketone TWA		200 ppm		US. ACGIH Threshold Limit Values (2011)	
	STEL	300 ppm		US. ACGIH Threshold Limit Values (2011)	
	PEL	200 ppm	590 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
Toluene TWA		20 ppm		US. ACGIH Threshold Limit Values (2011)	
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	

Chemical name	type	Exposure Limit Values	Source
Acetone	STEL	500 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	250 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



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Acetone	TWAEV	500 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	750 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Acetone	STEL	1,000 ppm	2,380 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	TWA	500 ppm	1,190 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Methyl ethyl ketone	TWA	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	100 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Methyl ethyl ketone	TWAEV	200 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	STEL	300 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Methyl ethyl ketone	TWA	50 ppm	150 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
	STEL	100 ppm	300 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Toluene	TWA	20 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Toluene	TWAEV	20 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Toluene	TWA	50 ppm	188 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

**Biological Limit Values** 

Chemical Identity	Exposure Limit Values	Source
Acetone (acetone:	50 mg/l (Urine)	ACGIH BEL (03 2013)
Sampling time: End of		



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shift.)		
Methyl ethyl ketone	2 mg/l (Urine)	ACGIH BEL (03 2013)
(MEK: Sampling time:		
End of shift.)		
Toluene (o-Cresol, with	0.3 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)
hydrolysis: Sampling		
time: End of shift.)		
Toluene (toluene:	0.02 mg/l (Blood)	ACGIH BEL (03 2013)
Sampling time: Prior to		
last shift of work week.)		
Toluene (toluene:	0.03 mg/l (Urine)	ACGIH BEL (03 2013)
Sampling time: End of		
shift.)		

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

#### Individual protection measures, such as personal protective equipment

General information:

Use explosion-proof ventilation equipment. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection:

Wear goggles/face shield.

**Skin Protection** 

**Hand Protection:** 

Use suitable protective gloves if risk of skin contact.

Other:

No data available.

**Respiratory Protection:** 

In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.

Hygiene measures:

When using do not smoke. Observe good industrial hygiene practices. Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use.

#### 9. Physical and chemical properties

#### **Appearance**

Physical state:

liquid

Form:

liquid

Color:

Amber

Odor:

Mild petroleum/solvent

Odor threshold:

No data available.

pH:

No data available.

Melting point/freezing point:

No data available.

Initial boiling point and boiling range:

56 °C 133 °F

Flash Point:

< -18 °C < 0 °F

Evaporation rate:

Slower than Ether



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No Flammability (solid, gas): Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available.

Vapor pressure:

Vapors are heavier than air and may travel along the floor and Vapor density:

0.85

in the bottom of containers.

Relative density:

Solubility(ies)

Practically Insoluble Solubility in water: No data available. Solubility (other): No data available. Partition coefficient (n-octanol/water): No data available. Auto-ignition temperature: No data available. **Decomposition temperature:** No data available. **Viscosity:** 

# 10. Stability and reactivity

No data available. Reactivity:

**Chemical Stability:** Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

No data available.

Heat, sparks, flames. **Conditions to Avoid:** 

Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides Incompatible Materials:

and chromates). Strong bases.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

#### 11. Toxicological information

Information on likely routes of exposure

May be ingested by accident. Ingestion may cause irritation and malaise. Ingestion:

In high concentrations, vapors, fumes or mists may irritate nose, throat and Inhalation:

mucus membranes.

Causes mild skin irritation. **Skin Contact:** 

Eye contact is possible and should be avoided. Eye contact:



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### Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:

ATEmix: 45,081.33 mg/kg

Dermal

Product:

No data available.

Inhalation

Product:

No data available.

Repeated dose toxicity

**Product:** 

No data available.

Skin Corrosion/Irritation

Product:

No data available.

Serious Eye Damage/Eye Irritation

Product:

No data available.

Specified substance(s):

Acetone

in vivo (Rabbit, 24 hrs): Minimum grade of severe eye irritant

Methyl ethyl ketone

in vivo (Rabbit, 24 hrs): Category 2

Toluene

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization

Product:

No data available.

Carcinogenicity

**Product:** 

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified



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#### **Germ Cell Mutagenicity**

In vitro

Product:

No data available.

In vivo

**Product:** 

No data available.

Reproductive toxicity

**Product:** 

Suspected of damaging fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure** 

Product:

No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.

**Aspiration Hazard** 

**Product:** 

No data available.

Other effects:

No data available.

#### 12. Ecological information

### **Ecotoxicity:**

### Acute hazards to the aquatic environment:

**Fish** 

**Product:** 

No data available.

Specified substance(s):

Acetone

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 5,490 - 7,030 mg/l

Mortality

Methyl ethyl ketone

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 3,130 - 3,320 mg/l

Mortality

Toluene

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 71.7 - 82.8 mg/l

Mortality

**Aquatic Invertebrates** 

Product:

No data available.

Specified substance(s):

Acetone

LC 50 (Water flea (Daphnia magna), 24 h): 10 mg/l Mortality

EC 50 (Water flea (Daphnia magna), 48 h): 21,600 - 23,900 mg/l Intoxication

LC 50 (Scud (Gammarus fasciatus), 96 h): > 100 mg/l Mortality

LC 50 (Asiatic clam (Corbicula manilensis), 96 h): > 20,000 mg/l Mortality

LC 50 (Water flea (Daphnia magna), 96 h): > 100 mg/l Mortality

Methyl ethyl ketone

LC 50 (Water flea (Daphnia magna), 24 h): 8,890 mg/l Mortality



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LC 50 (Water flea (Daphnia magna), 48 h): > 520 mg/l Mortality

LC 50 (Opossum shrimp (Americamysis bahia), 96 h): > 402 mg/l Mortality

LC 50 (Water flea (Daphnia magna), 24 h): > 520 mg/l Mortality

Toluene

LC 50 (Water flea (Daphnia magna), 24 h): 240 - 420 mg/l Mortality EC 50 (Water flea (Daphnia magna), 48 h): < 9.83 mg/l Intoxication

#### Chronic hazards to the aquatic environment:

Fish

**Product:** 

No data available.

Specified substance(s):

Toluene

NOAEL (Pimephales promelas, 32 d): 4 mg/l experimental result

**Aquatic Invertebrates** 

**Product:** 

No data available.

**Toxicity to Aquatic Plants** 

Product:

No data available.

#### Persistence and Degradability

**Biodegradation** 

Product:

No data available.

**BOD/COD Ratio** 

Product:

No data available.

#### **Bioaccumulative Potential**

**Bioconcentration Factor (BCF)** 

Product:

No data available.

Specified substance(s):

Toluene

Green algae (Selenastrum capricornutum), Bioconcentration Factor (BCF):

3,016 (Static)

#### Partition Coefficient n-octanol / water (log Kow)

Product:

No data available.

Specified substance(s):

Acetone

Log Kow: -0.24

Methyl ethyl ketone

Log Kow: 0.29

Toluene

Log Kow: 2.73

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.



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#### 13. Disposal considerations

**Disposal instructions:** 

Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

**Contaminated Packaging:** 

No data available.

# 14. Transport information

#### TDG:

UN1133, ADHESIVES, 3, PG II

#### CFR / DOT:

UN1133, Adhesives, 3, PG II

#### IMDG:

UN1133, ADHESIVES, 3, PG II

#### **Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

### 15. Regulatory information

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity

Reportable quantity

P-chlorobenzotrifluoride

De minimis concentration: 1.0% One-Time Export Notification only.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

**Chemical Identity** 

Reportable quantity

Acetone Methyl ethyl ketone 5000 lbs. 5000 lbs.

Toluene

1000 lbs.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# **Hazard categories**

Fire Hazard

Delayed (Chronic) Health Hazard

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.



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### **SARA 304 Emergency Release Notification**

Chemical Identity Reportable quantity

Acetone 5000 lbs. Methyl ethyl ketone 5000 lbs.

Toluene 1000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Acetone 500 lbs Methyl ethyl ketone 500 lbs

Toluene 500 lbs

#### SARA 313 (TRI Reporting)

#### **Chemical Identity**

Toluene

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

#### US. New Jersey Worker and Community Right-to-Know Act

#### Chemical Identity

Acetone

Methyl ethyl ketone

Toluene

#### US. Massachusetts RTK - Substance List

#### **Chemical Identity**

Acetone

Methyl ethyl ketone

Toluene

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Acetone

Methyl ethyl ketone

Toluene

#### **US. Rhode Island RTK**

#### **Chemical Identity**

Acetone

Methyl ethyl ketone

Toluene

#### Other Regulations:

Regulatory VOC (less water and exempt solvent):

199 g/l



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VOC Method 310:

5.80 %

**Inventory Status:** 

Australia AICS:

One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List:

All components in this product are listed on or

exempt from the Inventory.

EINECS, ELINCS or NLP:

One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List:

One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances:

One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI):

One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory:

One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS:

One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory:

All components in this product are listed on or

exempt from the Inventory.

New Zealand Inventory of Chemicals:

One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing:

One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing:

One or more components in this product are not listed on or exempt from the Inventory.

#### 16.Other information, including date of preparation or last revision

**Revision Date:** 

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Version #:

1.0

**Further Information:** 

No data available.



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Disclaimer:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.