

* Section 1. Identification

Product identifier

- **Trade name:** *Royal Edge Solvent Based Bonding Adhesive*
- **Relevant identified uses of the substance or mixture:** *Bonding Adhesive for EPDM roofing membrane*
- **Restrictions on Use:** *Exterior use only.*

Details of the supplier of the safety data sheet

- **Manufacturer/Supplier**
Roofing Products International, Inc.
2500 Dewitt St.
Elkhart, IN 46517-1078
- **Information department:** *Technical Services Department.*

Emergency telephone number

ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 703-527-3887

* Section 2. Hazard(s) identification

Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2

H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2

H361 Suspected of damaging fertility or the unborn child.

STOT RE 2

H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2A

H319 Causes serious eye irritation.

STOT SE 3

H336 May cause drowsiness or dizziness.

Label elements

- **GHS label elements:** *The product is classified and labeled according to the Globally Harmonized System (GHS).*

Hazard pictograms



GHS02



GHS07



GHS08

Signal Word

- **Danger**

Trade name: *RPI Royal Edge Bonding Adhesive*

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Hazard statements

*Highly flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
May cause cancer.*

Precautionary statements

*If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames. Do not smoke when handling or using material. Do not use in areas without proper ventilation.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
If INHALED: Remove victim to fresh air in comfortable position for breathing. Contact physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store in secure area.
Dispose of contents/container in accordance with local/regional/national/international regulations.*

Classification system

- **NFPA ratings (scale 0 - 4)**



*Health = 2
Fire = 3
Reactivity = 0*

- **HMIS-ratings (scale 0 - 4)**



*Health = 2
Fire = 3
Physical Hazard = 0*

Other hazards

- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

*

Section 3. Composition/information on ingredients

Chemical characterization

- **Mixtures Description:** *Mixture of the substances listed below with nonhazardous additions.*

Component Name	CAS	Percent
<i>Toluene</i>	<i>108-88-3</i>	<i>30-60%</i>
<i>Naphtha (petroleum), solvent-refined light (textile spirits)</i>	<i>64742-89-8</i>	<i>15-40%</i>
<i>Acetone</i>	<i>67-64-1</i>	<i>5-10%</i>
<i>Polychloroprene</i>	<i>Proprietary</i>	<i>10-30%</i>
<i>Phenolic Resin</i>	<i>Proprietary</i>	<i>1-5%</i>
<i>Magnesium oxide (MgO)</i>	<i>1309-48-4</i>	<i>0.5-1.5%</i>
<i>Xylenes (o-, m-, p- isomers)</i>	<i>1330-20-7</i>	<i>1-5%</i>

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* **Section 4. First-aid measures**

Description of first aid measures

• **General information:**

Symptoms of poisoning may occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

• **After inhalation:**

Remove victim to area off fresh air and seek medical attention. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

Call a doctor immediately.

• **Afterskin contact:**

Clean with rubbing alcohol, followed immediately by washing affected area with soap and water. Remove contaminated clothing. Wash clothing before reuse.

• **Aftereye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*

• **Afterswallowing:** *Seek medical treatment.*

Information for doctor

- **Most important symptoms and effects, both acute and delayed:** *No further relevant information available.*

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

* **Section 5. Fire-fighting measures**

Extinguishing media

- **Suitable extinguishing agents:** *CO₂, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Do not use high pressure water.*

Advice for firefighters

• **Protective equipment:**

Mouth respiratory protective device.

Protective clothing and respiratory protective device.

Special Hazards

- **Highly Flammable:** *Vapors are heavier than air and may travel along the ground to ignition sources and ignite.*
- **Hazardous Combustion Products**
Oxides of carbon, hydrogen cyanide, oxides of nitrogen.
- **Fire Fighting Measures**
Cool containers with water spray after fire is out.

* **Section 6. Accidental release measures**

Personal precautions, protective equipment and emergency procedure

Wear protective equipment. Keep unprotected persons away. See Section 8.

• **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Prevent seepage into sewage system, workpits and cellars.

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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*** Section 7. Handling and storage**

Handling

- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available

Conditions for safe storage, including any incompatibilities

- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location away from direct heat. Keep containers tightly closed. Store in a locked, secure facility.
- **Information about storage in one common storage facility:**
Store as flammable liquid.

Further information about storage conditions

- Keep receptacle tightly sealed.*
Store in cool, dry conditions in well sealed receptacles.
- **Incompatible Materials:** *Strong oxidizing agents, acids, and bases.*

*** Section 8. Exposure controls/personal protection**

- **Additional information about design of technical systems:** *No further data; see item 7.*

Control parameters

- **Components with limit values that require monitoring at the workplace:**

Magnesium oxide (MgO)		1309-48-4
ACGIH:	10 mg/m ³ TWA inhalable fraction	
NIOSH:	750 mg/m ³ IDLH fume	
OSHA:	15mg/m ³ TWA fume, total particulate	
Mexico:	10 mg/m ³ TWA LMPE-PPT as Mg fume	
Toluene		108-88-3
ACGIH:	20 ppm TWA	
NIOSH:	100 ppm TWA; 375 mg/m ³ TWA 150 ppm STEL; 560 mg/m ³ STEL	
	500 ppm IDLH	
Europe:	50 ppm TWA; 192 mg/m ³ TWA 100 ppm STEL; 384 mg/m ³ STEL	
	<i>Possibility of significant uptake through the skin</i>	
OSHA:	200 ppm TWA LMPE-PPT; 188 mg/m ³ TWA LMPE-PPT	
Mexico:	50 ppm TWA LMPE-PPT; 188 mg/m ³ TWA LMPE-PPT	
	<i>Skin - potential for cutaneous absorption</i>	
Acetone		67-64-1
ACGIH:	500 ppm TWA 750 ppm STEL	
NIOSH:	250 ppm TWA; 590 mg/m ³ TWA 2500 ppm IDLH (10% LEL)	
Europe:	500 ppm TWA; 1210 mg/m ³ TWA	
OSHA-US	1000 ppm TWA; 2400 mg/m ³ TWA	
Mexico:	1000 ppm TWA LMPE-PPT; 2400 mg/m ³ TWA LMPE-PPT	
	1260 ppm STEL LMPE-CT; 3000 mg/m ³ STEL LMPE-CT	

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Xylenes (o-, m-, p-isomers)		1330-20-7
ACGIH:	100 ppm TWA	150 ppm STEL
Europe:	50 ppm TWA (pure); 221 mg/β TWA (pure) 100 ppm STEL (pure); 442 mg/m³ STEL (pure) Possibility of significant uptake through the skin	
OSHA-US	100 ppm TWA; 435 mg/m³ TWA	
Mexico:	100 ppm TWA LMPE-PPT; 435 mg/m³ TWA LMPE-PPT 150 ppm STEL LMPE-CT; 655 mg/m³ STEL LMPE-CT	

Biological limit value

- There are no biological limit values for any of this products components.

Engineering Controls

- Provide local exhaust ventilation system. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits. There are no biological limit values for any of this products components.

Individual Protection Measures such as Personal Protective Equipment

Eye and Face protection

- Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and shower in the immediate work area.

Skin Protection

- Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Clean and dry contaminated clothing before reuse.

Respiratory Protection

- Wear proper respiratory protection.

Glove Recommendations

- Wear appropriate chemical resistant gloves.



Protective gloves

*** Section 9. Physical and chemical properties**

- Information on basic physical and chemical properties
- General Information

Appearance

- **Form:** Liquid
- **Color:** Yellow
- **Odor:** Hydrocarbon

Change in condition

- **Melting point:** -48° C
- **Boiling point:** Not Available
- **Flash point:** -20 °C (-4 °F)
- **Ignition temperature:** Not Available
- **Auto igniting:** 223° C

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Tradename: RPI Royal Edge Bonding Adhesive

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Appearance

- **Form:** Liquid
- **Color:** Yellow
- **Odor:** Hydrocarbon

Change in condition

- **Melting point:** -48° C
- **Boiling point:** 56° C -139° C
- **Flash point:** -20° C (-4° F)
- **Ignition temperature:** 240.0° C (464° F)
- **Auto igniting:** 223° C
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

Explosive limits

- **Lower:** 1.1 Vol %
- **Upper:** 12.8 Vol %
- **Vapor pressure:** 26.7 mm Hg @ 204° C
- **Volatility:** 79 - 83%
- **Specific gravity (water=1):** 0.84
- **Viscosity:** 2500 cps
- **Solubility in / Miscibility with Water:** Negligible.

Solvent content

- **Organic solvents:** 79 %
- **Solids content:** 21 %

Other information

No other information is available for this product.

* **Section 10. Stability and reactivity**

Reactivity

- **Chemical stability**
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Hazardous polymerization will not occur.
- **Conditions to avoid:** Avoid open flames, sparks, heat and other ignition sources.
- **Incompatible materials:** Strong oxidizing materials, acids, and bases.

Hazardous decomposition products:

Oxides of carbon, oxides of nitrogen.

* **Section 11. Toxicological information**

Information on toxicological effects

- **Routes of Exposure**
- **Inhalation:** Vapor or mist may cause respiratory tract irritation. May cause central nervous system effects. May cause nausea, dizziness, drowsiness and headache.
- **Skin Contact:** Causes skin irritation.
- **Eye Contact:** Causes serious eye irritation.
- **Ingestion:** May cause gastrointestinal irritation.

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Acute and Chronic Toxicity

- Acute toxicity:**

- LD/LC50 values that are relevant for classification**

108-88-3 toluene

Oral	LD50	2600 mg/kg (rat)
Dermal	LD50	12000 mg/kg (rabbit)
Inhalative	LC50/4 h	12.5 mg/l (rat)

68610-51-5 Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene

Oral	LD50	<200 mg/kg (rat)
Dermal	LD50	<5010 mg/kg (rabbit)
Inhalative	LC50/1 h	<165 mg/l (rat)

1314-13-2 Zinc oxide

Oral	LD50	<5000 mg/kg (rat)
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64742-89-8 Solvent naphtha, petroleum, light aliphatic

Oral	LD50	5000 mg/kg (mouse)
Dermal	LD50	3000 mg/kg (rabbit) <

67-64-1 Acetone

Inhalation	LC50	50,100 mg/m ³ 8 h (rat)
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1330-20-7 Xylenes (o-, m-, p- isomers)

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	<4350 mg/kg (rabbit)
Inhalative	LC50/4 h	29.08 mg/l (rat)

7732-18-5 Water

Oral	LD50	90 mL/kg (rat)
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Primary Immediate Irritant Effects

- May cause respiratory irritation. May cause drowsiness or dizziness, central nervous system damage, kidney damage, liver damage, respiratory system damage and nervous system effects.
- On the Skin:** Irritant to skin and mucous membranes.
- On the Eye:** Causes serious eye irritation.
- Sensitization:** Sensitizing effect through inhalation is possible with prolonged exposure.
- Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant
Carcinogenic
ACGIH:

Carcinogenic Components

Polychloroprene	Proprietary
IARC:	Supplement 7 1987; Monograph 19 1979 Group 3 (not classifiable)
Magnesium oxide (MgO)	
ACGIH:	A4 - Not Classifiable as a Human Carcinogen

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Toluene	108-88-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 1999; Monograph 47 1989 Group 3 (not classifiable)
Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Xylenes (o-, m-,p- isomers)	1330-20-7
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 1999; Monograph 47 1989 Group 3 (not classifiable)

- **Germ Cell Mutagenicity**
May cause genetic defects.
- **Reproductive Toxicity:**
May damage fertility or the unborn child.
- **Specific Target Organ Toxicity-Single Exposure:**
Central nervous system, kidney, liver, respiratory system, nervous system.
- **Specific Target Organ Toxicity-Repeated Exposure:**
Central nervous system, kidney, nervous system, respiratory system, blood, liver.
- **Medical Conditions Aggravated by Exposure:**
No data available.
- **Aspiration Hazard:**
Aspiration into lungs may cause damage. May be fatal if swallowed and enters airways.

* **Section 12. Ecological information**

Ecotoxicity

No additional information available

Component Analysis - Aquatic Toxicity	
Toluene	108-88-3
Fish:	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L (flow-through) (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L static; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L flow-through; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L static; LC50 96 h Oncorhynchus mykiss 5.8 mg/L semi-static; LC50 96 h Lepomis macrochirus 11 - 15 mg/L static; LC50 96 h Oryzias latipes 54 mg/L static; LC50 96 h Poecilia reticulata 28.2 mg/L semi-static; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L static
Algae:	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L static EPA
Invertebrate:	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L static EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID

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Component Analysis - Aquatic Toxicity

Toluene

108-88-3

Fish:

*LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L (flow-through) (1 day old);
LC50 96 h Pimephales promelas 12.6 mg/L static;
LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L flow-through;
LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L static;
LC50 96 h Oncorhynchus mykiss 5.8 mg/L semi-static;
LC50 96 h Lepomis macrochirus 11 - 15 mg/L static;
LC50 96 h Oryzias latipes 54 mg/L static;
LC50 96 h Poecilia reticulata 28.2 mg/L semi-static;
LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L static*

Algae:

*EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID;
EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L static EPA*

Invertibrate:

*EC50 48 h Daphnia magna 5.46 - 9.83 mg/L static EPA;
EC50 48 h Daphnia magna 11.5 mg/L IUCLID*

**Solvent Naphtha,
petroleum, light aliphatic**

64742-89-8

Algae:

EC50 72 h Pseudokirchneriella subcapitata 4,700 mg/L IUCLID;

Acetone

67-64-1

Fish:

*LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L;
LC50 96 h Pimephales promelas 6, 210 - 8,120 mg/L static;
LC50 96 h Lepomis macrochirus 8,300 mg/L*

Invertibrate:

*EC50 48 h Daphnia magna 10,294 - 17,704 mg/L static EPA;
EC50 48 h Daphnia magna 12,600 - 12,700 mg/L IUCLID*

Xylenes (o-, m-, p-isomers)

1330-20-7

Fish:

*LC50 96 h Pimephales promelas 13.4 mg/L flow-through;
LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L static;
LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L;
LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L flow-through;
LC50 96 h Lepomis macrochirus 19 mg/L;
LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L static;
LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L static;
LC50 96 h Cyprinus carpio 780 mg/L semi-static;
LC50 96 h Cyprinus carpio >780 mg/L;
LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L static.*

Algae:

*EC50 72 h Pseudokirchneriella subcapitata 11 mg/L IUCLID (related to
Aromatic hydrocarbons, C7-12, C8-rich)*

Invertibrate:

*EC50 48 h Water flea 3.82 mg/L;
LC50 48 h Gammarus lacustris 0.6 mg/L*

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- **Persistence and Biodegradability**
No data available.
- **Bio-accumulative Potential**
No data available.
- **Mobility**
No data available.
- **Other Toxicity**
No data available.

* **Section 13. Disposal considerations**

Disposal Methods

- Must be disposed in accordance with applicable local, state, and federal regulations

Uncleaned packagings

- Disposal must be made according to official regulations.

* **Section 14. Transportation information**

UN-Number

- DOT UN1133

UN proper shipping name

- DOT Adhesives, containing a flammable liquid

Transport

- DOT



- Class 3 Flammable liquids.

Packing group

- DOT II

Environmental hazards

- Special marking (ADR): Symbol (fish and tree)

- Special precautions for user Not applicable.

- Transporting bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

- UN "Model Regulation": UN1133, Adhesives, ENVIRONMENTALLY HAZARDOUS, 3, II

TDG Information

- Shipping name: Adhesive

- Hazard Class: 3

- UN-Number: UN1133

- Packaging Group: II

- Required Labels

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*** Section 15. Regulatory information**

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Toluene	108-88-3
SARA 313:	1% de minimis concentration
CERCLA:	1,000 lb final RQ; 454 kg final RQ
Acetone	67-64-1
CERCLA:	5,000 lb final RQ; 2,270 kg final RQ
Xylenes (o-, m-, p- isomers)	1330-20-7
SARA 313:	1% de minimis concentration
CERCLA:	100 lb final RQ; 45.4 kg final RQ
TSCA 12b:	Section 4, 1% de minimis concentration (related to Hydrocarbons, C>4)

SARA Section 311/312 (CFR 370 Subparts B and C)

- **Acute Health:** Yes
- **Chronic Health:** Yes
- **Fire:** Yes
- **Pressure:** No
- **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Magnesium oxide (MgO)	1309-48-4	Yes	Yes	Yes	Yes	Yes
Toluene	108-88-3	Yes	Yes	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes	Yes	Yes
Xylenes (o-, m-, p- isomers)	1330-20-7	Yes	Yes	Yes	Yes	Yes

The following statements are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects.

Toluene	108-88-3
Repro/Dec. Tox	developmental toxicity, initial date 1/1/91
	female reproductive toxicity, initial date 8/7/09

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on SDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limit listed on the IDL.

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Component Analysis-Inventory

Polychloroprene (Proprietary)

US	CA	EU	AU	PH	JP- ENCS	JP - ISHL	KR - KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	NO	YES	YES	YES	NO	YES	NO	YES	YES	YES

Magnesium oxide (MgO) (1309-48-4)

US	CA	EU	AU	PH	JP- ENCS	JP - ISHL	KR - KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	YES	YES	YES	NO	YES	NO	YES	YES	YES

Toulene (108-88-3)

US	CA	EU	AU	PH	JP- ENCS	JP - ISHL	KR - KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	YES	YES	YES	NO	YES	NO	YES	YES	YES

Solvent naphtha, petroleum,light aliphatic (6472-89-8)

US	CA	EU	AU	PH	JP- ENCS	JP - ISHL	KR - KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	YES	YES	NO	NO	YES	NO	YES	YES	YES

Acetone (67-64-1)

US	CA	EU	AU	PH	JP- ENCS	JP - ISHL	KR - KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	YES	YES	YES	NO	YES	NO	YES	YES	YES

Xylenes (o-, m-, p- isomers) (1330-20-7)

US	CA	EU	AU	PH	JP- ENCS	JP - ISHL	KR - KECI/KECL	KR-TCCA	CN	NZ	MX
Yes	DSL	EIN	YES	YES	YES	NO	YES	NO	YES	YES	YES

Carcinogenicity categories

• EPA (Environmental Protection Agency)

108-88-3	toluene	D
67-64-1	acetone	D

• TLV (Threshold Limit Value established by ACGIH)

108-88-3	toluene	A4
67-64-1	acetone	A4

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• **MAK(German Maximum Workplace Concentration)**

None of the ingredients is listed.

• **NIOSH-Ca(National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

• **OSHA-Ca(Occupational Safety & Health Administration)**

None of the ingredients is listed.

National regulations

- **Water hazard class:** *Water hazard class 3 (Self-assessment) : extremely hazardous for water.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

*** Section 16. Other information**

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Roofing Products International, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Roofing Products International, Inc. or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- **Department issuing SDS:** *Technical Services*
- **Department Creation Date:** *03/28/2003*
- **Date of preparation:** *08/08/2022*
- **Last Revision:** *General Update*
- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

DOT: US Department of Transportation

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bio-accumulative and Toxic

vPvB: Very persistent and very bio-accumulative

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2;

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

TDG: Transportation of Dangerous Goods

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average

UEL: Upper Explosive Limit

LEL: Lower Explosive Limit

LLV: Level limit Value

MAK: Maximum Concentration Value in the Workplace

MEL: Maximum Exposure Limits

IDLH: Immediately Dangerous to Life and Health

REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals