

## \* Section 1. Identification

### Product identifier

- **Trade name:** Royal Edge Low VOC Primer/Activator
- **Product Code:** PA1GLV
- **Relevant identified uses of the substance or mixture:** Construction

### Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**  
Roofing Products International, Inc.  
57460 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** Highly flammable liquid and vapor.



GHS09 Environment

- **Aquatic Chronic 2** H411 Toxic to aquatic life with long lasting effects.



GHS07

- **Skin Irrit. 2** H315 Causes skin irritation.
- **Eye Irrit. 2A** H319 Causes serious eye irritation.

### Label elements

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



GHS02 GHS07 GHS09

**Signal word: Danger**

### Label elements

#### Hazard statements

Highly flammable liquid and vapor.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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*Suspected of damaging fertility or the unborn child.  
May cause damage to organs through a single exposure.  
Toxic to aquatic life with long lasting effects/*

**Precautionary statements**

*If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use. Wear protective gloves and eye safety glasses.  
Keep away from heat/sparks/open flames. Do not smoke when handling or using material.  
Do not use in areas without proper ventilation. While using product, keep container tightly closed.  
Specific Treatment (see on this label)  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with clean water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.  
Store in secure area.  
Collect any spilled material.  
In case of fire use CO2, powder or water spray.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*

**Classification system**

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



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



**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.

Dangerous Components	CAS Number	
heptane	142-82-5	5-50 %
4-chloro-alpha, alpha, alpha-trifluorotoluene	95-56-6	65-85 %

**Additional information:**

*All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phrases refer to section 15.*

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

**Description of first aid measures**

- **General information:**

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*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. If breathing is difficult, give oxygen. Call a doctor immediately. Place patient in stable side position for transportation.*
- **After skin contact:**  
*Remove contaminated clothing and immediately wash affected area with soap and water. Rinse affected area with clean water for 15 minutes. Wash clothing before reuse. Contact a physician.*
- **After eye contact:**  
*Rinse opened eye for several minutes under clean running water. Contact a physician.*
- **After swallowing:**  
*Seek medical treatment immediately. Call a poison center or physician. Remove any dentures. Wash out mouth with clean water. and drink 1-2 glasses of water but don not induce vomiting. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed, product can enter lungs and cause damage. If vomiting occurs the head should be kept low to prevent vomit from entering lungs. If unconscious, place in recovery position and get immediate medical attention. Do not give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing to provide unrestricted breathing.*

**Most important symptoms and effects, both acute and delayed**

- **Eye Contact:**  
*Causes eye irritation.*
- **Inhalation:**  
*Harmful if inhaled. Can cause central nervous system depression. May cause drowsiness and dizziness.*
- **Skin Contact:**  
*Causes skin irritation.*
- **Ingestion:**  
*Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Irritating to mouth, throat, and stomach.*

**Over-exposure signs and symptoms**

**Eye Contact**

- **Adverse symptoms may include the following:** Pain or irritation. Redness and watering of the eyes.

**Inhalation**

- **Adverse symptoms may include the following.** Nausea or vomiting, headache with drowsiness or fatigue. Dizziness with disorientation and vertigo. Unconsciousness.

**Skin Contact**

- **Adverse symptoms include the following.** Irritation and redness.

**Ingestion**

- **Adverse symptoms may include the following.** Nausea and/or vomiting.

**Indication of any immediate medical attention and special treatment needed**

- **Information for Physician:**  
*No further relevant information available.*
- **Specific treatments:**  
*Treat symptomatically and supportively.*
- **Protection of first aiders:**  
*No action shall be taken involving any personal risk or without suitable training.*

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

**Extinguishing media**

- **Suitable extinguishing agents:**  
*CO2, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:**  
*Water and water with full jet*

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### **Advice for firefighters**

- **Protective equipment:**

*Mouth respiratory protective device.*

*Protective clothing and respiratory protective device.*

## \* **Section 6. Accidental release measures**

### **Personal precautions, equipment and emergency procedures**

*Wear protective equipment. Keep unprotected persons away.*

- **Environmental precautions:**

*Do not allow product to enter sewage system, ground water, workpits, cellars or any water course.*

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

*Do not allow product to enter 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.*

## \* **Section 7. Handling and storage**

### **Handling**

- **Precautions for safe handling:**

*Ensure good ventilation/exhaustion at the workplace.*

*Wear personal protective equipment.*

*Wash thoroughly after handling.*

*Open and handle receptacle with care.*

*Do not use air pressure to unload containers.*

*Keep container tightly closed.*

*Do not breath vapors or spray mist.*

- **Information about protection against explosions and fires:**

*Store as a flammable liquid.*

*Use explosion proof equipment. Keep away from ignition sources. Do not smoke.*

*Bond and ground containers. Although bonded and grounded, static electricity may accumulate.*

*Use only non-sparking tools.*

*Protect against electrostatic charges.*

*Keep respiratory protective device available.*

### **Advice on general occupational hygiene**

*Do not eat, drink, or smoke in areas where this product is being handled, stored, or processed.*

*Workers should wash face and hands before eating, drinking or smoking.*

*Remove protective clothing and equipment before entering eating areas.*

### **Conditions for safe storage, including any incompatibilities**

*Store as a flammable liquid in a cool, segregated, approved area in accordance with local regulations.*

*Store in secured area away from imcompatable materials and food and drink.*

*Eliminate all ignition sources.*

*Material must be stored in original containers tightly closed and sealed.*

*Store containers upright to prevent spillage.*

*Do not store in unlabeled containers.*

### **Specific end use(s)**

*No further relevent information available.*

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**\* 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:**

Name of Ingredients	CAS Number		
Heptane	142-82-5	PEL	Long-term value: 2000 mg/m <sup>3</sup> , 500 ppm
		REL	Ceiling limit value: C 1800* mg/m <sup>3</sup> , C 440* ppm *15- min
		TLV	Short-term value: 2050 mg/m <sup>3</sup> , 500 ppm
			Long-term value: 1640 mg/m <sup>3</sup> , 400 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment (see listings below)**

- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of the work day.  
Avoid contact with the eyes and skin.  
Store protective clothing separately.
- **Breathing equipment:**  
Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/substance and the preparation. Check with glove manufacturer for data regarding chemical resistance.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and therefore has to be checked prior to the application.

- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Safety glasses

Safety glasses with side shields should be worn. If splashes are likely to occur, wear goggles or a full face mask. Do not wear contact lenses. Eye wash stations and safety showers should be close to workstation.

- **Skin and body protection:**  
Wear solvent resistant apron and boots. Material should be antistatic and flame resistant.

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

**Information on basic physical and chemical properties**

**General Information**

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**Appearance**

- **Form:** Liquid
- **Color:** Clear
- **Odor:** Characteristic

**pH-value:** Not determined

**Change in condition**

- **Melting point/Melting Range** Undetermined
- **Boiling point/Boiling Range** 98°C (208°F)
- **Flash point:** -4° C (25°F)
- **Ignition temperature:** 215 °C (419 °F)
- **Auto igniting:** Not selfigniting
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

**Flammable limits**

**Lower:** 1.1 Vol %  
**Upper:** 7.0 Vol %

- **Vapor pressure at 20 °C (68 °F):** 48 hPa (36 mm Hg)
- **Specific gravity** 1.13
- **Relative density** Not determined
- **Vapor density: (Air=1)** 3.6
- **Evaporation rate** (ethyl ether = 1): 3.5
- **Partition coefficient (n-octanol/water: gravity)** Not determined
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix

**Solvent content**

• **Organic solvents:** 90.5%

• **Solids content:** 9.5%

**Other information**

VOC: = 1.79 lbs/gal  
215 g/l SCAQMD Rule 1168 Method  
Weight per gallon: = 9.4 lbs

**\* Section 10. Stability and reactivity**

- **Reactivity:**  
Not expected to be explosive, self-reactive or self-heating under normal conditions.

**Chemical stability**

- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:**  
No further information is available.
- **Conditions to avoid:**  
Heat, open flames, and sparks.  
Do not allow vapor to accumulate in low or confined areas Do not pressurize, cut, weld, braze, drill, or grind on containers. Situations conducive to the build up of static electricity.

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- **Incompatible materials:**  
Acids, aldehydes, alkalis, amines, ammonia, oxidizing agents.
- **Hazardous decomposition products:**  
Oxides of carbon, nitrogen and hydrocarbons, hydrogen bromide (thermal degradation products). Hydrocarbons

\* **Section 11. Toxicological information**

**Information on toxicological effects**

- **Acute toxicity:**
- **Primary irritant effect**
- **On the skin:** Irritant to skin and mucus membranes.
- **On the eye:** Irritating effect. Vapors may be irritating to the eyes.
- **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 categories**

**IARC (International agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

\* **Section 12. Ecological information**

**Toxicity**

- **Aquatic toxicity:** No further relevant information.
- **Persistence and degradability:** No further relevant information.

**Behavior in environmental systems**

- **Biocumulative potential:** No further relevant information.
- **Mobility in soil:** No further relevant information.

**Ecotoxicological effects**

- **Remarks:** Very toxic to fish.

**Additional ecological information**

- **General notes:** At present there are no ecotoxicological assessments.

**Results of PBT and vPvB assessments**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information.

\* **Section 13. Disposal considerations**

**Waste treatment method**

- **Recommendations**

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**\* Section 13. Disposal considerations**

**Waste treatment method**

**• Recommendation:**

The generation of waste should be avoided or minimized whenever and wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental and waste disposal legislation and all local, regional, and federal authority requirements. Dispose of surplus and non-recyclable products thru a licensed waste disposal contractor. Waste should not be allowed to enter streams, lakes, sewer systems, or other open waterways. Waste packaging should be recycled. This material and its containers that have not been cleaned or rinsed out may contain product residues or vapors that are highly flammable and may explode. Do not cut, weld, or grind used containers. Do not dispose with household garbage. Any contaminated cleaning materials used with this product must be properly disposed and treated as flammable materials unless they have been thoroughly washed and clean of any product or residue. Do not allow product to reach sewage system.

**Uncleaned packagings**

**• Recommendation:** Disposal must be made in compliance with local, state, regional, and federal regulations.

**\* Section 14. Transportation information**

**UN-Number**

**• DOT, ADR, IMDG, IATA** UN1133

**UN proper shipping name**

**• DOT, IMDG, IATA** Adhesives  
**ADR** 1133 Adhesives, Environmentally Hazardous

**Transport hazard classes**

**• DOT**



**• Class** 3 Flammable liquids.  
**• Label** 3

**ADR, IMDG**



**• Class** 3 Flammable liquids.  
**• Label** 3

**IATA**



**• Class** 3 Flammable liquids.  
**• Label** 3

**PACKING GROUP**

**• DOT** II

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**Environmental hazards**

**Marine pollutant:** *Symbol (fish and tree)*  
**Special Marking (ADR)** *Symbol (fish and tree)*

• **Special precautions for user** *Warning: Flammable liquids*

• **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** *Not applicable*

**DOT**

• **Remarks:** *Special marking with the symbol (fish and tree)*

• **UN "Model Regulation":** *UN 1993, Adhesives, Flammable Liquid, N.O.S., 3, II*

**\* Section 15. Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture.**

• **Sara**

• **Section 355 (extremely hazardous substances):**

*None of the ingredients is listed.*

• **Section 313 (Specific toxic chemical listings):**

*None of the ingredients is listed.*

• **TSCA (Toxic Substances Control Act):**

*All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.*

**Proposition 65**

• **Chemicals known to cause cancer:**

*None of the ingredients listed.*

• **Chemicals known to cause reproductive toxicity:**

*None of the ingredients listed.*

**(DSL) Canada Domestic Substance List**

*All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from DSL requirements.*

**Carcinogenity categories**

• **EPA (Environmental Protection Agency)**

*None of the ingredients listed.*

• **TLV (Threshold Limit Value established by ACGIH)**

*None of the ingredients listed.*

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

*None of the ingredients listed.*

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

*None of the ingredients listed.*

**National regulations**

• **Water hazard class:** *Water hazard class 2 (Self-assessment): hazardous for water.*

• **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

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\* **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:** 02/27/2015
- **Last revision:** Format 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*
  - 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*

*End of SDS*