

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 21.03.2014

revision number 1

Revision: 21.03.2014

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** *EternaPrime Spray*
- **Relevant identified uses of the substance or mixture and uses advised against** *Primer*
- **Application of the substance / the mixture** *Primer/ Subcoating*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Royal Adhesives & Sealants, LLC
4401 Page Avenue. P. O. Box 457
Michigan Center, MI 49254
Information Phone Number: 517-764-0334
- **Further information obtainable from:** *Environment protection department.*
- **Emergency telephone number:** *ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 703-527-3887*

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

Repr. 2 H361f Suspected of damaging fertility.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not applicable.



Xn; Harmful

R48/20-62: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility.

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*Xi; Irritant**R38: Irritating to skin.**F+; Extremely flammable**R12: Extremely flammable.**N; Dangerous for the environment**R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**R67: Vapours may cause drowsiness and dizziness.***· Information concerning particular hazards for human and environment:***Warning! Pressurized container.**Has a narcotizing effect.**The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.***· Classification system:***The classification is according to the latest editions of the EU-lists, and extended by company and literature data.***· Label elements****· Labelling according to EU guidelines:***The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.***· Code letter and hazard designation of product:***Xn Harmful**F+ Extremely flammable**N Dangerous for the environment***· Hazard-determining components of labelling:***n-hexane***· Risk phrases:***12 Extremely flammable.**38 Irritating to skin.**48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.**62 Possible risk of impaired fertility.**51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**67 Vapours may cause drowsiness and dizziness.***· Safety phrases:***2 Keep out of the reach of children.**16 Keep away from sources of ignition - No smoking.**23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).**29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.**36/37 Wear suitable protective clothing and gloves.**46 If swallowed, seek medical advice immediately and show this container or label.**51 Use only in well-ventilated areas.***· Special labelling of certain preparations:***Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.**Do not spray on a naked flame or any incandescent material.*

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- **Classification in accordance with Directive 75/324/EEC:** Extremely flammable
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.
- **After swallowing:** 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.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, sand, extinguishing powder. Do not use water.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to item 13 on the MSDS.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

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- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
- Avoid prolonged or repeated contact with skin.
- Avoid contact with eyes.
- Wash thoroughly after handling.
- **Information about fire - and explosion protection:**
- Keep ignition sources away - Do not smoke.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- Do not spray onto a naked flame or any incandescent material.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
- Store in a cool location.
- Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

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

· Ingredients with limit values that require monitoring at the workplace:	
110-54-3 n-hexane (50-100%)	
WEL	Long-term value: 72 mg/m ³ , 20 ppm
106-97-8 butane (containing ≥0,1 % butadiene (203-450-8)) (2.5-10%)	
WEL	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm
	Carc (if more than 0.1% of buta-1,3-diene)
67-64-1 acetone (2.5-10%)	
WEL	Short-term value: 3620 mg/m ³ , 1500 ppm
	Long-term value: 1210 mg/m ³ , 500 ppm
106-99-0 1,3-butadiene buta-1,3-diene (≤0.09%)	
WEL	Long-term value: 22 mg/m ³ , 10 ppm
	Carc

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- Keep away from foodstuffs, beverages and feed.

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Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

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.

· 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:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Liquid

Colour: Clear

· Odour: Characteristic

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point: 69 °C

· Flash point: -23 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 240 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Not determined.

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· Explosion limits:	
Lower:	1.1 Vol %
Upper:	7.5 Vol %
· Vapour pressure at 20 °C:	140 hPa
· Specific Gravity at 20 °C:	0.7 g/cm ³
· Relative density	Not determined.
· Vapour density	3
· Evaporation rate	8.1
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, flames, sparks.
- **Incompatible materials:** Reacts with oxidizing agents.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrocarbons

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

106-99-0 1,3-butadiene buta-1,3-diene

Oral	LD50	5480 mg/kg (rat)
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Inhalative	LC50/4 h	285 mg/l (rat)
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- **Primary irritant effect:**
- **on the skin:** Skin irritant.
- **on the eye:**
May irritate the eye.
Vapors may be irritating to the eyes.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:** At present there are no ecotoxicological assessments.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|-------------------------------------|---|
| · UN-Number | |
| · ADR, IMDG, IATA | UN1950 |
| · UN proper shipping name | |
| · ADR | 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS |
| · IMDG | AEROSOLS (HEXANES), MARINE POLLUTANT |
| · IATA | AEROSOLS, flammable |
| · Transport hazard class(es) | |
| · ADR | |
| |  |
| · Class | 2 5F Gases. |
| · Label | 2.1 |

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· **IMDG**

· **Class** 2.1
· **Label** 2.1

· **IATA**

· **Class** 2.1
· **Label** 2.1

· **Packing group**· **ADR, IMDG, IATA** Void· **Environmental hazards:** Product contains environmentally hazardous substances: n-hexane· **Marine pollutant:** Yes
Symbol (fish and tree)· **Special marking (ADR):** Symbol (fish and tree)· **Special precautions for user** Warning: Gases.· **Danger code (Kemler):** -· **EMS Number:** F-D,S-U· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)** 1L· **Transport category** 2· **Tunnel restriction code** D· **UN "Model Regulation":** UN1950, AEROSOLS, ENVIRONMENTALLY HAZARDOUS, 2.1

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **National regulations:**· **Technical instructions (air):**

Class	Share in %
I	70.0
NK	15.0

· **Waterhazard 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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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Environment protection department.

· **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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

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

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

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