

**Safety Data Sheet**  
acc. to OSHA HCS

Printing Date 01/15/2019

Revision Number 7

Revision Date 01/15/2019

**1 Identification**

- **Product identifier**
- **Trade name:** *Royal Vinyl Flooring Spray Adhesive*
- **Relevant identified uses of the substance or mixture.**  
*Industrial Use Only.*  
*Adhesive*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*Royal Adhesives & Sealants, LLC*  
*863 South East Main Street*  
*Simpsonville, SC 29681*  
*(864) 967-7691*
- **Information department:** *Global Regulatory Department.*
- **Emergency telephone number:**  
*ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.*  
*Outside USA and Canada: +1 703-527-3887 (collect calls accepted)*

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS04 Gas cylinder

*Press. Gas H280 Contains gas under pressure; may explode if heated.*

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



GHS04

- **Signal word** *Warning*
- **Hazard statements**  
*Contains gas under pressure; may explode if heated.*
- **Precautionary statements**  
*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*  
*Pressurized container: Do not pierce or burn, even after use.*  
*Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



*Health = 0*  
*Fire = 0*  
*Reactivity = 1*

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
PHYSICAL HAZARD	1	Physical Hazard = 1

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

### \* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description: Mixture**

· **Hazardous components:**

75-37-6	1,1-difluoroethane	25-50%
9002-93-1	Polyethylene glycol octylphenol ether	≤0.5%

### \* 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Overexposure, remove to fresh air and seek medical attention.  
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 several minutes under running water.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **Special hazards arising from the substance or mixture** Extremely flammable aerosol.
- **Advice for firefighters**  
Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- **Protective equipment:** Protective clothing and respiratory protective device.
- **Additional information**  
Fire exposed containers may build pressure and burst.  
Move containers from fire area if you can do so without risk.

### \* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.

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- Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose of the collected material according to regulations.  
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
75-37-6	1,1-difluoroethane	10,000 ppm
· <b>PAC-2:</b>		
75-37-6	1,1-difluoroethane	15,000 ppm
· <b>PAC-3:</b>		
75-37-6	1,1-difluoroethane	25,000 ppm

## \* 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Open and handle receptacle with care.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**  
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.
- **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.  
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store as a non-flammable aerosol
- **Further information about storage conditions:** DO NOT expose to heat or temperatures above 50C (122F)
- **Specific end use(s)** No further relevant information available.

## \* 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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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:** Wash hands before breaks and at the end of work.

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· **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/ the substance/ the preparation.

· **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.

· **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 with side shields.



Tightly sealed goggles

· **Body protection:** Protective work clothing

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

<b>Form:</b>	Aerosol
<b>Color:</b>	Not determined.
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

<b>Melting point:</b>	Undetermined.
<b>Boiling point:</b>	Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Vapor pressure at 20 °C (68 °F):** 5,100 hPa (3,825.3 mm Hg)

· **Specific gravity at 20 °C (68 °F):** 1.007 g/cm<sup>3</sup> (8.40341 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

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- |   |                                   |
|---|-----------------------------------|
| · <b>Evaporation rate</b>                         | Not applicable.                   |
| · <b>Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix. |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                   |
| · <b>Viscosity:</b>                               |                                   |
| <b>Dynamic:</b>                                   | Not determined.                   |
| <b>Kinematic:</b>                                 | Not determined.                   |
| · <b>Solvent content:</b>                         |                                   |
| <b>Solids content:</b>                            | 0.0 %                             |
| · <b>Other information</b>                        | Grams VOC/Liter <1.0              |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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**  
Exposure to high temperatures.  
Heat, flames, sparks.
- **Incompatible materials:** Reacts with oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** May irritate the skin.
- **on the eye:** May irritate the eye.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients is listed.

· <b>NTP (National Toxicology Program)</b>
None of the ingredients is listed.

· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>
None of the ingredients is listed.

### 12 Ecological information

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

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- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
At present there are no ecotoxicological assessments.  
Generally not hazardous for water
- **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 packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## \* 14 Transport information

- |   |
|---|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, IMDG, IATA</b> <span style="float: right;">UN1950</span></li> </ul>  |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b> <span style="float: right;">Aerosols</span></li> <li>· <b>IMDG, IATA</b> <span style="float: right;">AEROSOLS</span></li> </ul>   |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b> <span style="float: right;">2 Gases</span></li> <li>· <b>Label</b> <span style="float: right;">2</span></li> </ul> |
| <ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b> <span style="float: right;">2 Gases</span></li> <li>· <b>Label</b> <span style="float: right;">2</span></li> </ul>                                       |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, IMDG, IATA</b> <span style="float: right;">not regulated</span></li> </ul>   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b> <span style="float: right;">Not applicable.</span></li> </ul>  |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b> <span style="float: right;">Warning: Gases</span></li> <li>· <b>Danger code (Kemler):</b> <span style="float: right;">-</span></li> </ul>  |

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· <b>EMS Number:</b>	<i>F-D,S-U</i>
· <b>Stowage Code</b>	<i>SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</i>
· <b>Segregation Code</b>	<i>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</i>
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
· <b>UN "Model Regulation":</b>	<i>UN 1950 AEROSOLS, 2</i>

## 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**

*Please contact H.B. Fuller for more information regarding Proposition 65 on this product:  
reg.request@hbfuller.com .*

· **(DSL) Canada Domestic Substance List**

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

· **New Jersey Right-to-Know List:**

*75-37-6 | 1,1-difluoroethane*

· **New Jersey Special Hazardous Substance List:**

*75-37-6 | 1,1-difluoroethane*

*F4*

· **Pennsylvania Right-to-Know List:**

*None of the ingredients is listed.*

· **Pennsylvania Special Hazardous Substance List:**

*None of the ingredients is listed.*

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

*None of the ingredients is listed.*

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

*None of the ingredients listed.*

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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.

· **National regulations:**

· **Water hazard class:** Generally not hazardous for water.

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

### \* 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, Royal Adhesives & Sealants 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 Royal Adhesives & Sealants 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:**

Global Regulatory Department.

reg.request@hbfuller.com

· **Creation Date:** 01/15/2019

· **Contact:**

Please contact H.B. Fuller for more information regarding Proposition 65 on this product:

reg.request@hbfuller.com .

· **Date of preparation / last revision** 01/15/2019 / 6

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Press. Gas: Gases under pressure – Compressed gas