

**Material Safety Data Sheet**  
acc. to ISO/DIS 11014

Printing Date 03/21/2012

Revision Number 1

Reviewed on 01/10/2012

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

- **Product identifier**
- **Trade name:** 13982 Silaprene Adhesive
- **Article number:** 13982
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Royal Adhesives And Sealants, LLC  
2001 W. Washington Street  
South Bend IN 46628-2023
- **Information department:** Environment protection department.
- **Emergency telephone number:**  
ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 703-527-3887

**2 Composition/information on ingredients**

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

· **Dangerous components:**

67-64-1	acetone	10-20%
	⚠ H225; ⚠ H319; H336	
78-93-3	methyl ethyl ketone	10-20%
	⚠ H225; ⚠ H319; H336	
108-88-3	toluene	10-20%
	⚠ H225; ⚠ H361; H373; H304; ⚠ H315; H336	
110-54-3	n-hexane	10-20%
	⚠ H225; ⚠ H361; H373; H304; ⚠ H411; ⚠ H315; H336	

- **Additional information:** For the wording of the listed risk phrases refer to section 15.

**3 Hazards identification**

- **Classification of the substance or mixture**  
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
**Harmful**  
Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed.
- Irritant**  
Irritating to eyes.
- Flammable**  
Highly flammable.
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**  
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- **Label elements**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Code letter and hazard designation of product:**

Harmful  
Flammable

- **Hazard-determining components of labelling:**

n-hexane  
toluene  
acetone  
methyl ethyl ketone

- **Risk phrases:**

Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.  
Highly flammable.  
Harmful by inhalation.  
Irritating to eyes.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
Possible risk of impaired fertility.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.

- **Safety phrases:**

Keep out of the reach of children.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Wear suitable protective clothing and gloves.  
If swallowed, seek medical advice immediately and show this container or label.

- **Classification system:**

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



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

HEALTH	2	Health = 2
FIRE	3	Fire = 3
PHYSICAL HAZARD	0	Physical Hazard = 0

## 4 First aid measures

- **General information:**

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

- **After inhalation:** Overexposure, remove to fresh air and seek medical attention.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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

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· **After swallowing:** Seek medical treatment.

## 5 Firefighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water and water with full jet
- **Protective equipment:**
  - Mouth respiratory protective device.
  - Protective clothing and respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
  - Do not allow product to reach sewage system or any water course.
  - Inform respective authorities in case of seepage into water course or sewage system.
- **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.

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Prevent formation of aerosols.
  - **Information about protection against explosions and fires:**
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
  - **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.
  - **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.
- **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.

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- **Additional information:** The lists that were valid during the creation were used as basis.
- **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 work.  
 Avoid contact with the eyes and skin.
- **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
- **Eye protection:** Safety glasses with side shields.
- **Body protection:** Protective work clothing

### 9 Physical and chemical properties

· <b>General Information</b>	
· <b>Appearance:</b>	
Form:	Liquid
Color:	Yellow
· <b>Odor:</b>	Characteristic
· <b>Change in condition</b>	
Melting point:	Undetermined.
Boiling point:	55°C (131 °F)
· <b>Flash point:</b>	-26°C (-15 °F)
· <b>Ignition temperature:</b>	240.0°C (464 °F)
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Flammable limits:</b>	
Lower:	1.2 Vol %
Upper:	13.0 Vol %
· <b>Vapor pressure at 20°C (68 °F):</b> 233.0 hPa (175 mm Hg)	
· <b>Specific gravity:</b>	0.889
· <b>Solubility in / Miscibility with</b>	
Water:	Not miscible or difficult to mix.
· <b>Solvent content:</b>	
Organic solvents:	68 %
Solids content:	32 %

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**· Other information**

*"NOTICE: This product does not comply with the requirements of Rule 1168 of California's South Coast Air Quality Management District".*

*VOC: = 444 G/L OR 3.7 LBS/GAL*

*WEIGHT PER GALLON = 7.44 LB*

*561 G/L (SCAQMD RULE 1168 METHOD)*

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** *Keep away from extreme heat, sparks, open flames.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:**  
*Oxides of carbon, nitrogen and hydrocarbons, hydrogen chloride (thermal degradation products).*

**11 Toxicological information**

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** *Irritant to skin and mucous membranes.*
- **on the eye:** *Irritating effect.*
- **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*

**12 Ecological information**

- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behavior in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Ecotoxicological effects:**
- **Remark:** *Harmful to fish*
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 2 (Self-assessment): hazardous for water*  
*Do not allow product to reach ground water, water course or sewage system.*  
*Danger to drinking water if even small quantities leak into the ground.*  
*Harmful to aquatic organisms*

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*  
*Disposal must be made according to official regulations.*

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |                      |
|--|----------------------|
| · <b>UN-Number</b>   |                      |
| · <b>DOT</b>   | UN1133               |
| · <b>UN proper shipping name</b>   |                      |
| · <b>DOT</b>   | ADHESIVES            |
| · <b>Transport hazard class(es)</b>  |                      |
| · <b>DOT</b>   |                      |
| · <b>Class</b>   | 3 Flammable liquids. |
| · <b>Packing group</b>   |                      |
| · <b>DOT</b>   | II                   |
| · <b>Special precautions for user</b>  | Not applicable.      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.      |

## 15 Regulatory information

· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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

78-93-3 methyl ethyl ketone

108-88-3 toluene

110-54-3 n-hexane

· **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 is listed.

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

Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

108-88-3 toluene

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

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

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· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	D
78-93-3	methyl ethyl ketone	D
108-88-3	toluene	D

· **IARC (International Agency for Research on Cancer)**

108-88-3	toluene	3
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

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

· **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.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard-determining components of labelling:**

n-hexane  
toluene  
acetone  
methyl ethyl ketone

· **Risk phrases:**

Highly flammable.  
Harmful by inhalation.  
Irritating to eyes.  
Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
Possible risk of impaired fertility.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Harmful: may cause lung damage if swallowed.

· **National regulations:**

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

\* **16 Other information**

Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, 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 MSDS.

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