



## 1 Identification

- **Product identifier**
- **Trade name:** 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)
- **Article number:** 12886
- **Relevant identified uses of the substance or mixture.** Adhesive
- **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 Phone Number: 574-246-5000
- **Information department:** Environment protection department.

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



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.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **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

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 1)

· **Hazard statements**

*Extremely flammable aerosol. Pressurized container: May burst if heated.*  
*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.*  
*Harmful to aquatic life with long lasting effects.*

· **Precautionary statements**

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*  
*Pressurized container: Do not pierce or burn, even after use.*  
*Do not breathe dust/fume/gas/mist/vapors/spray.*  
*Do not spray on an open flame or other ignition source.*  
*Wear protective gloves.*  
*Wear eye protection / face protection.*  
*Avoid release to the environment.*  
*Wash thoroughly after handling.*  
*Use only outdoors or in a well-ventilated area.*  
*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*If swallowed: Immediately call a poison center/doctor.*  
*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*Specific treatment (see on this label).*  
*IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*  
*Call a poison center/doctor if you feel unwell.*  
*IF exposed or concerned: Get medical advice/attention.*  
*If skin irritation occurs: Get medical advice/attention.*  
*If eye irritation persists: Get medical advice/attention.*  
*Get medical advice/attention if you feel unwell.*  
*Do NOT induce vomiting.*  
*If on skin: Wash with plenty of water.*  
*Take off contaminated clothing and wash it before reuse.*  
*Store locked up.*  
*Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*  
*Store in a well-ventilated place. Keep container tightly closed.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2  
 Fire = 4  
 Reactivity = 3

· **HMIS-ratings (scale 0 - 4)**



Health = 1  
 Fire = 4  
 Physical Hazard = 3

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT: Not applicable.**

(Contd. on page 3)

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 2)

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization:** Mixtures

· **Description:** Mixture

· **Hazardous components:**

67-64-1	acetone	10-25%
74-98-6	propane	10-25%
106-97-8	butane (containing $\geq 0,1$ % butadiene (203-450-8))	5-20%
110-54-3	n-hexane	5-20%
79-20-9	methyl acetate	2.5-10%

### 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:**

Rinse out mouth with water. Drink 1 - 2 glasses of water but **DO NOT** induce vomiting. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

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 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

Use fire fighting measures that suit the environment.

· **For safety reasons unsuitable extinguishing agents:** Do not use direct water stream.

· **Special hazards arising from the substance or mixture**

Extremely flammable aerosol.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During a fire hazardous gases may be formed.

· **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:** Wear self-contained respiratory protective device.

USA

(Contd. on page 4)

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 3)

### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

**· Environmental precautions: 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.

**· 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.

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Use only in well ventilated areas.

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

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 on 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 away from direct heat.

Empty containers may contain hazardous residuals. Keep away from heat, sparks and open flame. DO NOT cut, drill, puncture, weld or grind on or near full, partially full or empty product containers.

**· Information about storage in one common storage facility: STORE AS LEVEL 3 AEROSOL (NFPA 30B)**

**· Further information about storage conditions:**

Keep receptacle tightly sealed.

Do not gas tight seal receptacle.

Store in cool, dry conditions in well sealed receptacles.

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 systems: No further data; see item 7.**

(Contd. on page 5)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 4)

· **Control parameters**

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

**67-64-1 acetone**

PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm
	Long-term value: 594 mg/m <sup>3</sup> , 250 ppm
	BEI

**74-98-6 propane**

PEL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV	refer to Appendix F in TLVs and BEIs book

**106-97-8 butane (containing ≥0,1 % butadiene (203-450-8))**

REL	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TLV	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm

**110-54-3 n-hexane**

PEL	Long-term value: 1800 mg/m <sup>3</sup> , 500 ppm
REL	Long-term value: 180 mg/m <sup>3</sup> , 50 ppm
TLV	Long-term value: 176 mg/m <sup>3</sup> , 50 ppm
	Skin; BEI

**79-20-9 methyl acetate**

PEL	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
REL	Short-term value: 760 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 610 mg/m <sup>3</sup> , 200 ppm
TLV	Short-term value: 757 mg/m <sup>3</sup> , 250 ppm
	Long-term value: 606 mg/m <sup>3</sup> , 200 ppm

· **Ingredients with biological limit values:**

**67-64-1 acetone**

BEI	50 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Acetone (nonspecific)

**110-54-3 n-hexane**

BEI	0.4 mg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: 2.5-Hexanedione without hydrolysis

· **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 work.
- Store protective clothing separately.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

(Contd. on page 6)

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 5)

· **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**

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:**

Safety glasses with side shields.



Tightly sealed goggles

Face shield over protective glasses or goggles.

· **Body protection:**

Protective work clothing

Apron

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

**Form:** Compressed gas

**Color:** Amber

· **Odor:** Characteristic

· **Change in condition**

**Melting point:** Undetermined.

**Boiling point:** -44 °C (-47 °F)

· **Flash point:** -97 °C (-143 °F)

· **Ignition temperature:** 240 °C (464 °F)

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

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Flammable limits:**

**Lower:** 1.2 Vol %

**Upper:** 13.0 Vol %

(Contd. on page 7)

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 6)

- **Vapor pressure at 20 °C (68 °F):** 8300 hPa (6226 mm Hg)
- **Specific gravity at 20 °C (68 °F):** 0.827-0.847 g/cm<sup>3</sup> (6.901-7.068 lbs/gal)
- **Solubility in / Miscibility with**  
**Water:** Not miscible or difficult to mix.
- **Other information** No further relevant information available.

### 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 further information is available.
- **Conditions to avoid** Heat, flames, sparks, hot surfaces, ignition sources.
- **Incompatible materials:**  
 Reacts with oxidizing agents.  
 Reacts with acids.  
 Nitrates  
 Chlorine and fluorine.
- **Hazardous decomposition products:**  
 Carbon monoxide and carbon dioxide  
 Hydrocarbons

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **Primary irritant effect:**  
**on the skin:** Irritant to skin and mucous membranes.  
**on the eye:**  
 Causes serious eye irritation.  
 Vapors may be irritating to the eyes.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**  
 May cause organ damage through prolonged or repeated exposure.  
 The product shows the following dangers according to internally approved calculation methods for preparations:  
 Irritant
  - **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.                                 |

USA

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 7)

## 12 Ecological information

- **Toxicity**
- **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.
- **Mobility in soil** No further relevant information available.
- **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 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, ADR, IMDG, IATA</b></li> </ul>  | <p style="text-align: center;">UN1950</p>   |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p style="text-align: center;">Aerosols, flammable<br/>1950 Aerosols<br/>AEROSOLS<br/>AEROSOLS, flammable</p> |

- **Transport hazard class(es)**

- **DOT**



- |                |     |
|----------------|-----|
| · <b>Class</b> | 2.1 |
| · <b>Label</b> | 2.1 |

- **ADR**



- |                |            |
|----------------|------------|
| · <b>Class</b> | 2 5F Gases |
|----------------|------------|

(Contd. on page 9)

USA



# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)

(Contd. of page 8)

· **Label** 2.1· **IMDG, IATA**· **Class** 2.1· **Label** 2.1· **Packing group**· **DOT, ADR, IMDG, IATA** none· **Environmental hazards:** Not applicable.· **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:** Product may be shipped as a Limited Quantity. Until 12/31/2020, the Consumer Commodity, ORM-D, may be used in place of the limited quantity diamond label for packages of UN 1950 Aerosols.· **UN "Model Regulation":** UN1950, Aerosols, 2.1

### 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):**

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:**

None of the ingredients is 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.

· **Cancerogenity categories**· **EPA (Environmental Protection Agency)**

67-64-1 acetone

I

110-54-3 n-hexane

II

(Contd. on page 10)

USA

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 09/23/2015

Revision Number 4

Revision Date 09/23/2015

**Trade name: 12886 SILAPRENE GEN PURP WEB AEROSOL (CAN)**

(Contd. of page 9)

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

67-64-1 acetone

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.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· **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.

### 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:** Environment protection department.

· **Creation Date:** 01/08/2003

· **Date of preparation / last revision** 09/23/2015 / 3

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

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

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

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 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

USA