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Safety Data Sheet acc. to OSHA HCS

Printing Date 09/09/2016

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Revision Number 4

Revision Date 09/09/2016

 1 Identification Product identifier Trade name: <u>12786 SILAPRENE ADHESIVE</u> Article number: 12786 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
 Trade name: <u>12786 SILAPRENE ADHESIVE</u> Article number: 12786 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
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• 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. 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
GHS02 Flame Flam. Liq. 2 H225 Highly flammable liquid and vapor. 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.
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms
GHS02 GHS07
 Signal word Danger Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.
• Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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67-64-1 acetone 110-82-7 cyclohexane Revision Number 4

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Use explosion-proof electrical/ventilating/lighting/equipment.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wear protective gloves / eye protection / face protection.	
Ground/bond container and receiving equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to d	10
Continue rinsing.	
Specific treatment (see on this label).	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Call a POISON CENTER/doctor if you feel unwell.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Take off contaminated clothing and wash it before reuse.	
Store locked up.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\frac{3}{1000} Health = 1$	
Fire = 3 $P_{\text{transfirm}} = 0$	
Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
$\begin{array}{c c} \text{HEALTH} & 1 \\ \end{array} Health = 1 \\ \end{array}$	
FIRE 3 $Fire = 3$	
PHYSICAL HAZARD O Physical Hazard = 0	
· 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:	
-	25 500/
	25-50%

(Contd. on page 3)

5-20%

5-20%

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4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air or oxygen; call for doctor.
- · 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: 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- Use fire fighting measures that suit the environment.
- · 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.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation*
- · 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
- Open and handle receptacle with care.
- Prevent formation of aerosols.
- Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep container closed when not in use.

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- \cdot 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.
- Information about storage in one common storage facility: Store away from oxidizing agents.
- Store as flammable liquid.
- $\cdot \textit{Further information about storage conditions: Keep receptacle tightly sealed.}$
- 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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the remaining constituent has no known exposure limits.

67-64-1 acetone

- PEL Long-term value: 2400 mg/m³, 1000 ppm
- *REL* Long-term value: 590 mg/m³, 250 ppm
- TLV Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI

110-82-7 cyclohexane

- PEL Long-term value: 1050 mg/m³, 300 ppm
- REL Long-term value: 1050 mg/m³, 300 ppm
- TLV Long-term value: 344 mg/m³, 100 ppm

· Ingredients with biological limit values:

67-64-1 acetone

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

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· Protection of hands:



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Protective gloves

• Eye protection: Safety glasses with side shields.

• Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physica	l and chamical properties
· General Information	i una chemicai properties
· Appearance:	
Form:	Liquid
Color:	Amber colored
· Odor:	Characteristic
· Change in condition	
Melting point:	Undetermined.
Boiling point:	55 °C (131 °F)
· Flash point:	-19 °C (-2 °F)
· Ignition temperature:	215.0 °C (419 °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:	1.1 Vol %
Upper:	13.0 Vol %
\cdot Vapor pressure at 20 °C (68 °	F): 233.0 hPa (175 mm Hg)
· Specific gravity:	.782
· Relative density	Not determined.
· Vapor density	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	64.0 %
Solids content:	36.0 %
• Other information	VOC: = 2.99 LBS/GAL
U U	WEIGHT PER GALLON: = 6.51 LBS

10 Stability and reactivity

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• *Reactivity* No further relevant information available.

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· 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.
- · Incompatible materials: Strong oxidizers, amines, reactive metals, acids and bases.
- · Hazardous decomposition products:

Oxides of carbon, phosgene, various hydrocarbon, and hydrogen bromide under burning conditions.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- 110-82-7 cyclohexane

Oral LD50 12705 mg/kg (rat)

- · 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: Sensitizing effect through inhalation and contact with the skin is possible with prolonged exposure.
- \cdot Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: 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.

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.
- · Ecotoxical effects:
- · Remark: Very 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.

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• 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:

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• Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN1133
UN proper shipping name DOT IMDG, IATA	Adhesives ADHESIVES
Transport hazard class(es)	
DOT	
RAMINEL LOCO	
Class Label	3 Flammable liquids 3
IMDG, IATA	
Class Label	3 Flammable liquids 3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Product contains environmentally hazardous substances: heptane, cyclohexane
Marine pollutant:	
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	33 E E S D
EMS Number: Stowage Category	F-E,S-D B
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.

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• UN ''Model Regulation'':

UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- · Section 313 (Specific toxic chemical listings):
- 110-82-7 cyclohexane

• 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 for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· (DSL) Canada Dosmestic 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:

67-64-1 acetone

110-82-7 cyclohexane

· New Jersey Special Hazardous Substance List:

67-64-1 acetone

110-82-7 cyclohexane

• Pennsylvania Right-to-Know List: 67-64-1 acetone

110-82-7 cyclohexane

· Pennsylvania Special Hazardous Substance List:

67-64-1 acetone 110-82-7 cyclohexane

· Cancerogenity categories

· EPA (Environmental Protection Agency)

142-82-5 heptane

67-64-1 acetone

110-82-7 cyclohexane

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• TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

· 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: Water hazard class 1 (Self-assessment): slightly 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: 09/09/2016

· Date of preparation / last revision 09/09/2016 / 3

· Abbreviations and acronvms:

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent 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 **BEI:** Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3