

# Safety Data Sheet

acc. to OSHA HCS

Printing date 11/09/2015

Reviewed on 11/09/2015

## 1 Identification

- **Product identifier**
- **Trade name:** SILSPEC FLEXPATCH - COMPONENT B
- **Article number:** 87-140250B
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Silicone Specialties, Inc. Tel.:(918) 587-5567  
 430 South Rockford Fax :(918) 582-7510  
 Tulsa, OK 74120 Web: www.ssicm.com
  
- **Emergency Telephone Number:** Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day.
- **Information department:** Environmental, Health, and Safety department.

## 2 Hazard(s) identification

- **Classification of the substance or mixture**
  - Acute Tox. 4      H302 Harmful if swallowed.
  - Skin Corr. 1B    H314 Causes severe skin burns and eye damage.
  - Eye Dam. 1      H318 Causes serious eye damage.
  - Skin Sens. 1     H317 May cause an allergic skin reaction.
  - Repr. 2          H361 Suspected of damaging fertility or the unborn child.
  - Aquatic Acute 1   H400 Very toxic to aquatic life.
  - Aquatic Chronic 1 H410 Very toxic 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**



GHS05    GHS07    GHS08    GHS09

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
 4-nonylphenol, branched  
 3,6-diazaoctanethylenediamin  
 2,4,6-tris(dimethylaminomethyl)phenol  
 cyclohex-1,2-ylenediamine
- **Hazard statements**  
 Harmful if swallowed.  
 Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 Suspected of damaging fertility or the unborn child.  
 Very toxic to aquatic life.  
 Very toxic to aquatic life with long lasting effects.

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- **Precautionary statements**

Do not breathe dusts or mists.

*IF ON SKIN (or hair):* Remove/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 do. Continue rinsing.

Immediately call a poison center/doctor.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

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



Health = 3

Fire = 1

Reactivity = 2

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

HEALTH	3
FIRE	1
PHYSICAL HAZARD	2

Health = 3

Fire = 1

Reactivity = 2

- **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 the substances listed below with nonhazardous additions.

- **Dangerous components:**

84852-15-3	4-nonylphenol, branched	50-75%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≤ 10%
112-24-3	3,6-diazaoctanethylenediamin	≤ 10%
694-83-7	cyclohex-1,2-ylenediamine	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms receive medical treatment.

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

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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- Immediately rinse with water.
- If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
  - Immediately call a doctor.
  - Drink copious amounts of water and provide fresh air. Immediately call a doctor.
  - 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>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
  - Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

## 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).
  - Use neutralizing agent.
  - Dispose contaminated material as waste according to item 13.
  - 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**
  - Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Store away from incompatible materials.

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- **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:**

**112-24-3 3,6-diazaoctanethylenediamin**

WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm
	Skin

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **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:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Eye protection:** Wear appropriate eye protection to prevent eye contact.

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Amber
<b>Odor:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** > 94 °C (> 201 °F)
- **Flammability (solid, gaseous):** Not applicable.

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· <b>Ignition temperature:</b>	335 °C (635 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	13.0 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	0.1 hPa
· <b>Density at 20 °C (68 °F):</b>	0.97 g/cm <sup>3</sup> (8.095 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <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>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	No further relevant information available.
· <b>Volatile Organic Compounds:</b>	Not determined

## 10 Stability and reactivity

- **Reactivity** No decomposition if stored and applied as directed.
- **Chemical stability** No decomposition if stored and applied as directed
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Keep away from heat and sources of ignition.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

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

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

112-24-3 3,6-diazaoctanethylenediamin

Oral	LD50	2500 mg/kg (rat)
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Dermal	LD50	805 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** May cause skin irritation.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Corrosive  
Irritant  
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
105-60-2	1,6-hexanolactam	4
71-43-2	benzene	1
· <b>NTP (National Toxicology Program)</b>		
71-43-2	benzene	K
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
71-43-2	benzene	

## 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.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

*Must not be disposed of as normal garbage. Do not allow product to reach sewage system.*

*It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.*

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

## 14 Transport information

- **UN-Number**

- **DOT, ADR, IMDG, IATA**

UN1760

- **UN proper shipping name**

- **DOT**

*Corrosive liquids, n.o.s. (4-nonylphenol, branched, Triethylenetetramine)*

- **ADR**

*1760 Corrosive liquids, n.o.s. (4-nonylphenol, branched, Triethylenetetramine), ENVIRONMENTALLY HAZARDOUS*

- **IMDG**

*CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched, TRIETHYLENETETRAMINE), MARINE POLLUTANT*

- **IATA**

*CORROSIVE LIQUID, N.O.S. (4-nonylphenol, branched, TRIETHYLENETETRAMINE)*

- **Transport hazard class(es)**

- **DOT**



- **Class**

8 Corrosive substances

- **Label**

8

- **ADR, IMDG**



- **Class**

8 Corrosive substances

- **Label**

8

- **IATA**



- **Class**

8 Corrosive substances

- **Label**

8

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· Packing group · DOT, ADR, IMDG, IATA	III
· Environmental hazards:	Product contains environmentally hazardous substances: 4-nonylphenol, branched
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups	Warning: Corrosive substances 80 F-A,S-B Alkalis
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Remarks:	Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons).
· ADR · Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Same as listed for Standard Shipments above.
· U.S. Domestic Ground Shipments: · U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	Not determine
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN1760, Corrosive liquids, n.o.s. (4-nonylphenol, branched, Triethylenetetramine), ENVIRONMENTALLY HAZARDOUS, 8, III

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

### · Section 355 (extremely hazardous substances):

7664-41-7	ammonia, anhydrous
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### · Section 313 (Specific toxic chemical listings):

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

7664-41-7	ammonia, anhydrous			≤0.1%
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71-43-2	benzene			≤0.01%
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**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**· Proposition 65**
**· Chemicals known to the State of California (Prop. 65) to cause cancer:**

71-43-2 benzene

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

None of the ingredients is listed.

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

71-43-2 benzene

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

71-43-2 benzene

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

71-43-2 benzene

A, K/L

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

105-60-2 1,6-hexanolactam

A5

71-43-2 benzene

A1

**· MAK (German Maximum Workplace Concentration)**

71-43-2 benzene

I

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

71-43-2 benzene

**· GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms**


GHS05

GHS07

GHS08

GHS09

**· Signal word** *Danger*
**· Hazard-determining components of labeling:**

4-nonylphenol, branched

3,6-diazaoctanethylenediamin

2,4,6-tris(dimethylaminomethyl)phenol

cyclohex-1,2-ylenediamine

**· Hazard statements**
*Harmful if swallowed.**Causes severe skin burns and eye damage.**May cause an allergic skin reaction.**Suspected of damaging fertility or the unborn child.**Very toxic to aquatic life.**Very toxic to aquatic life with long lasting effects.*
**· Precautionary statements**
*Do not breathe dusts or mists.**IF ON SKIN (or hair): Remove/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 do. Continue rinsing.*

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*Immediately call a poison center/doctor.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

**· National regulations:**

**· 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

*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 SDS:** *Environmental, Health & Safety Department*

**· Contact:** *Environmental, Health & Safety Manager*

**· Date of preparation / last revision** *11/09/2015 / 128*

**· 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*

*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*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B*

*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*

*Repr. 2: Reproductive toxicity, Hazard Category 2*

*Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*