

Revision Number 1

Reviewed on 08/03/2012

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

- · Product identifier
- · Trade name: 49174 (Hardman Epocap 19174 Part A)
- Article number: 49174
- · 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** Hazards identification

· Classificati	on of the substance or mixture
Carc. 2	H351 Suspected of causing cancer.
Skin Irrit. 2	H315 Causes skin irritation.
	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
	H227 Combustible liquid.
Acute Tox.	5 H333 May be harmful if inhaled.
Harmful	on according to Directive 67/548/EEC or Directive 1999/45/EC lence of a carcinogenic effect.
Irritant Irritating to	eyes and skin. May cause sensitisation by skin contact.
Toxic to aqu • Classification The classification	for the environment latic organisms, may cause long-term adverse effects in the aquatic environment. o <b>n system:</b> cation was made according to the latest editions of international substances lists, and expanded upon ny and literature data.
· Label eleme	ents
	<b>ccording to EU guidelines:</b> t has been classified and marked in accordance with directives on hazardous materials.
Harmful	and hazard designation of product: for the environment
• <b>Hazard-det</b> Epoxy Resir antimony tr Benzyl alco	ioxide
Limited evid May cause s	s: eyes and skin. lence of a carcinogenic effect. sensitisation by skin contact. uatic organisms, may cause long-term adverse effects in the aquatic environment. (Contd. on page 2)

Printing Date 08/03/2012

Revision Number 1

Reviewed on 08/03/2012

#### Trade name: 49174 (Hardman Epocap 19174 Part A)



• Safety phrases: Keep out of the reach of children.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Wear suitable protective clothing, gloves and eye/face protection.

If swallowed, seek medical advice immediately and show this container or label. Use only in well-ventilated areas.

· Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

· Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

HEALTH2Health = 2FIRE2Fire = 2PHYSICAL HAZARD 0Physical 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 of the substances listed below with nonhazardous and Trade Secret addition(s).

· Dangerous components:

For Trade Secret information refer to 29 CFR 1910.120.

	Hydrated Alumina	50-100%
25068-38-6	Epoxy Resin	25-50%
	🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	Trade Secret	2.5-10%
	Acute Tox. 5, H333	
100-51-6	Benzyl alcohol	2.5-10%
1309-64-4	antimony trioxide	<i>≤</i> 2.5%
	🚸 Carc. 2, H351	
1333-86-4	Carbon black	<u>≤</u> 0.5%
· Additional i	<i>information:</i> For the wording of the listed risk phrases refer to section 15.	I

(Contd. on page 3)

Printing Date 08/03/2012

Revision Number 1

Reviewed on 08/03/2012

Trade name: 49174 (Hardman Epocap 19174 Part A)

(Contd. of page 2)

#### 4 First aid measures

#### · Description of first aid measures

· After inhalation:

Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

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

*Rinse opened eye for 15 minutes under running water. If eye becomes irritated, obtain medical treatment.* • *After swallowing:* Do not induce vomiting. Obtain medical advice.

- 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** Firefighting measures

- · Extinguishing media
- $\cdot$  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
- · 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.*
- 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 Ensure good ventilation/exhaustion at the workplace.
- · 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: Store in a cool location away from direct heat.
- · Information about storage in one common storage facility: Keep away from open flames and high temperatures.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 4)

USA

Printing Date 08/03/2012

Revision Number 1

Reviewed on 08/03/2012

Trade name: 49174 (Hardman Epocap 19174 Part A)

· Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

100-51-6 Benzyl alcohol (2.5-10%)	100-51-6	Benzyl alco	ohol (2.5-10%)
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WEEL 10 ppm

1309-64-4 antimony trioxide (<u></u>2.5%)

 PEL
 0.5 mg/m³

 REL
 0.5 mg/m³

 as Sb

 TLV
 0.5 mg/m³

as Sb

#### 1333-86-4 Carbon black (≤0.5%)

PEL 3.5 mg/m<sup>3</sup> REL 3.5\* mg/m<sup>3</sup> \*0.1 in presence of PAHs, as PAHs; 10-hr TWA TLV 3\* mg/m<sup>3</sup> \*inhalable fraction

#### · Additional information:

This product contains Carbon Black which is not considered hazardous in a wet or encapsulated state. However, if a formula containing hazardous fillers is reduced to a respirable fraction by grinding or putting into an airborne powder, the powder is considered a hazardous material. 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:

#### Not required.

In the absence of adequate ventilation, use NIOSH-certified respiratory protection for particulate matter/organic vapor. Comply with OSHA 29 CFR 1910.134.

#### • 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
- Chloroprene rubber, CR
- · Eye protection:

Safety glasses with side shields.



Tightly sealed goggles

(Contd. on page 5)

(Contd. of page 3)

Printing Date 08/03/2012

**Revision Number 1** 

# Trade name: 49174 (Hardman Epocap 19174 Part A)

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• **Body protection:** Emergency showers and eye wash stations should be available. Protective work clothing

# 9 Physical and chemical properties

· Information on basic physical and ch	emical properties	
· General Information		
· Appearance: Form:	Liquid	
Color:	Black	
· Odor:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined.	
· Flash point:	90°C (194 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
· Flammable limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Specific gravity at $20^{\circ}C$ (68 °F):	1.69 g/cm³ (14.103 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Segregation coefficient (n-octonol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	3.2 %	
VOC (Per EPA 24)	N/A GMS/L	
Solids content:	96.8 %	
• Other information	No further relevant information available.	

(Contd. on page 6)

(Contd. of page 4)

Reviewed on 08/03/2012

Printing Date 08/03/2012

Revision Number 1

Reviewed on 08/03/2012

Trade name: 49174 (Hardman Epocap 19174 Part A)

(Contd. of page 5)

#### **10 Stability and reactivity**

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions Strong oxidizing agents.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Aldehydes, acids.

#### **11 Toxicological information**

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

#### 1309-64-4 antimony trioxide

*Oral LD50* >20000 mg/kg (rat)

- Primary irritant effect:
- · on the skin: May irritate the skin.
- on the eye: May irritate the eye.
- Sensitization: Skin Contact Sensitization possible through skin contact.
- · Additional toxicological information:
- Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

1309-64-4 antimony trioxide

1333-86-4 Carbon black

· NTP (National Toxicology Program)

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: Toxic for 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.
- Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 7)

2B

2B

USA

Printing Date 08/03/2012

Revision Number 1

Reviewed on 08/03/2012

Trade name: 49174 (Hardman Epocap 19174 Part A)

(Contd. of page 6)

· Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Disposal must be made according Federal, State and local regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· Packing group · DOT, ADR, IMDG, IATA	Void
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
• Transport/Additional information:	Epoxy Resin - This product is not considered to be DOT hazardou when transported via any mode within the United States. However if this product is transported to or within the European Communit it is considered to be an Environmentally Hazardous Substance, Liquid Epoxy Resin, UN3082, Class 9.

# **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):

1309-64-4 antimony trioxide

• TSCA (Toxic Substances Control Act):

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

<sup>(</sup>Contd. on page 8)

USA

A2

A4

2

3B

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

Printing Date 08/03/2012

· Proposition 65

Revision Number 1

Reviewed on 08/03/2012

#### Trade name: 49174 (Hardman Epocap 19174 Part A)

(Contd. of page 7)

 Chemicals known to cause cancer: 1309-64-4 antimony trioxide

· Chemicals known to cause reproductive 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

1309-64-4 antimony trioxide

1333-86-4 Carbon black

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

1309-64-4 antimony trioxide

1333-86-4 Carbon black

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

1333-86-4 Carbon black

· 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: Epoxy Resin antimony trioxide* 

Benzyl alcohol

· Risk phrases:

Irritating to eyes and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

• Special labeling of certain preparations: Contains epoxy constituents. See information supplied by the manufacturer.

· National regulations:

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

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

**16 Other information** 

(Contd. on page 9)

SA

Printing Date 08/03/2012

**Revision Number 1** 

Reviewed on 08/03/2012

#### Trade name: 49174 (Hardman Epocap 19174 Part A)

(Contd. of page 8)

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.

· Department issuing MSDS: Environment protection department.

#### • 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 Organization 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 NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

USA -



**GUNTHER** 

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

Printing Date 07/15/2010

ROYA

**Revision Number 1** 

Reviewed on 10/12/2009

**1 Identification of substance** 

- · Product details
- · Trade name: 59174 (Hardman Epocap 19174 Part B)
- Manufacturer/Supplier: Royal Adhesives And Sealants, LLC 2001 W. Washington Street South Bend IN 46628-2023
- · Information department: Environment protection department.
- · Emergency information: ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 202-483-7616

#### 2 Composition/Data on components

· Chemical characterization

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerou	s components:		
	Polyamido Amine	Warning: 2.6/4	50-100%
100-51-6	Benzyl alcohol	Warning: 🚸 3.1.0/4, 3.1.I/4	2.5-10%
· Additiona	l information: For the wording of the listed risk phro	ases refer to section 15.	

# 3 Hazards identification

- *Hazard description: Irritant*
- · Information pertaining to particular dangers for man and environment:
- May cause sensitisation by skin contact.
- · Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)

· GHS label elements

Warning

2.6/4 - Combustible liquid.

· Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

- Wear protective gloves/protective clothing/eye protection/face protection.
- · Response:
- In case of fire: Use for extinction: CO2, powder or water spray.
- · Storage:

Store in a well-ventilated place. Keep cool.

(Contd. on page 2)

USA

Printing Date 07/15/2010

Revision Number 1

Reviewed on 10/12/2009

(Contd. of page 1)

#### Trade name: 59174 (Hardman Epocap 19174 Part B)

· Disposal:

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

#### 4 First aid measures

#### · After inhalation:

Remove to fresh air. If not breathing, administer artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

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

*Rinse opened eye for 15 minutes under running water. If eye becomes irritated, obtain medical treatment.* • *After swallowing:* 

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

#### **5** Fire fighting measures

· Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

• Protective equipment: Protective clothing and respiratory protective device.

#### 6 Accidental release measures

· Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

• Measures for environmental protection: Do not allow to enter sewers/ surface or ground water. • Measures for cleaning/collecting:

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.

# 7 Handling and storage

· Handling:

- *Information for safe handling: Ensure good ventilation/exhaustion at the workplace.*
- · Information about protection against explosions and fires: No special measures required.

· 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: Keep away from open flames and high temperatures.
- · Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and personal protection

· Additional information about design of technical systems: No further data.

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

100-51-6 Benzyl alcohol (2.5-10%)

WEEL 44 mg/m<sup>3</sup>, 10 ppm

(Contd. on page 3)

USA

Printing Date 07/15/2010

Revision Number 1

Reviewed on 10/12/2009

# Trade name: 59174 (Hardman Epocap 19174 Part B)

	(Contd. of page 2)
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:	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Breathing equipment:	
Use approved respiratory protection equipment when airborne exposure is excessive. Consult the manufacturer to determine the appropriate type of equipment for a given application. Observe a 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 prepe	aration.
Material of gloves	
Nitrile rubber, NBR	
Chloroprene rubber, CR	
Eye protection:	
Safety glasses with side shields.	
Tightly sealed goggles	
Body protection:	
Protective work clothing	

Protective work clothing Emergency showers and eye wash stations should be available.

General Information		
Form:	Fluid	
Color:	Amber	
Odor:	Amine-like	
Change in condition		
Melting point:	Undetermined.	
<b>Boiling point:</b>	Undetermined.	
Flash point:	93°C (199°F)	
Ignition temperature:	435°C (815°F)	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammable limits:		
Lower:	1.3 Vol %	
Upper:	13.0 Vol %	
Vapor pressure at $20^{\circ}C$ (6)	<b>8°F):</b> 0.1 hPa	
Specific gravity at $20^{\circ}C$ (6)	<b>8•F</b> ): 0.96 g/cm <sup>3</sup>	
Solubility in / Miscibility w	rith	
Water:	Not miscible or difficult to mix.	

Printing Date 07/15/2010

Revision Number 1

Reviewed on 10/12/2009

(Contd. of page 3)

Trade name: 59174 (Hardman Epocap 19174 Part B)

· Solvent content: Organic solvents: VOC (Per EPA 24)

10.0 % N/A GMS/L

# **10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Materials to be avoided:
- · Dangerous reactions Strong oxidizing agents.
- · Dangerous products of decomposition: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Ammonia.

# 11 Toxicological information

- · Acute toxicity:
- Primary irritant effect:

#### • on the skin:

- May irritate the skin.
- Irritant to skin and mucous membranes.
- May be harmful if absorbed through the skin.
- on the eye: May irritate the eye.
- Sensitization: Skin Contact Sensitization possible through skin contact.
- · Additional toxicological information:

Inhalation - Vapors may be severely irritating to the respiratory tract. May cause respiratory tract sensitization. Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

# **12 Ecological information**

- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

# **13 Disposal considerations**

- · Product:
- · Recommendation:

Disposal must be made according Federal, State and local regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations. Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

(Contd. on page 5)

Printing Date 07/15/2010

Revision Number 1

Reviewed on 10/12/2009

#### Trade name: 59174 (Hardman Epocap 19174 Part B)

(Contd. of page 4)

#### **14 Transport information**

• DOT regulations: Non-hazardous via all transport modes. • Hazard class: Non-Hazardous

· Land transport ADR/RID (cross-border):

· ADR/RID class: Not Regulated

• Maritime transport IMDG:

• IMDG Class: Not Regulated

• Air transport ICAO-TI and IATA-DGR: • ICAO/IATA Class: Not Regulated

· UN "Model Regulation": -

· Transport/Additional information: Not dangerous according to the above specifications.

#### **15 Regulations**

· 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

· 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 Dosmestic 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)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients listed.

· 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.

(Contd. on page 6)

Printing Date 07/15/2010

Revision Number 1

Reviewed on 10/12/2009

#### Trade name: 59174 (Hardman Epocap 19174 Part B)

(Contd. of page 5)

· 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: Benzyl alcohol*
- **Risk phrases:** May cause sensitisation by skin contact.
- · National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly 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.

· Department issuing MSDS: Environment protection department.

 Abbreviations and acronyms: DOT: US Department of Transportation GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

USA -