



Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

### 1 Identification

- · Product identifier
- · Trade name: Double Bubble Epoxy General Purpose Part A (04005)
- · Relevant identified uses of the substance or mixture. Adhesive
- · Application of the substance / the mixture Adhesives
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Royal Adhesives & Sealants 800 E. Anaheim Street Wilmington. CA 90744

(310) 830-9904

- · 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

· Classification of the substance or mixture



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

Causes skin and eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves.

If on skin: Wash with plenty of water.

(Contd. on page 2)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 1)

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Adhesive
- · Hazardous components:

25068-38-6 Bisphenol A Epoxy Resin

50-100%

### 4 First-aid measures

- · Description of first aid measures
- · 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.

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

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 2)

· 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.* 

- · Special hazards arising from the substance or mixture No further relevant information available.
- · 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.

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).

· 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.

· Protective Action Criteria for Chemicals

· PAC-1:		
25068-38-6 Bisphenol A Epoxy Resin	90 mg/m³	
· PAC-2:		
25068-38-6 Bisphenol A Epoxy Resin	990 mg/m³	
· PAC-3:		
25068-38-6 Bisphenol A Epoxy Resin	$5,900 \text{ mg/m}^3$	

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Open and handle receptacle with care.

Use only in well ventilated areas.

Prevent formation of aerosols.

- · 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: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

USA

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 3)

### 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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: Not necessary if room is well-ventilated.
- · 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

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.
- · Body protection: Protective work clothing

## 9 Physical and chemical properties

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

Form: Liquid
Color: Amber

Odor: Characteristic
Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point:Undetermined.Boiling point:Undetermined

• Flash point:  $> 97 \, ^{\circ}C \, (> 206.6 \, ^{\circ}F)$ 

· Flammability (solid, gaseous): Not applicable.

(Contd. on page 5)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

	(Contd. of p	age
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Flammable limits:		
Lower:	Not Available	
Upper:	Not Available	
· Vapor pressure:	Not determined.	
· Specific gravity at 20 °C (68 °F):	1.15	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	e <b>r):</b> Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC (Per EPA 24)	26.37 GMS/L	
· 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 dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Reacts with oxidizing agents.

Reacts with acids.

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Aldehydes

Acids

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Skin irritant.
- · on the eye: Irritating effect.
- · Sensitization: Skin Contact May cause allergic skin reaction.
- · Additional toxicological information:

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

(Contd. on page 6)

USA ·

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 5)

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: 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.
- · 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.

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· UN-Number · DOT · IMDG, IATA	not regulated UN3082
· UN proper shipping name	
$\cdot DOT$	not regulated
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (Bisphenol A Epoxy Resin), MARINE POLLUTANT
$\cdot$ IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (Bisphenol A Epoxy Resin)

(Contd. on page 7)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 6) · Transport hazard class(es)  $\cdot DOT$ · Class not regulated · IMDG, IATA · Class 9 Miscellaneous dangerous substances and articles · Label · Packing group  $\cdot DOT$ not regulated · IMDG, IATA III· Environmental hazards: · Marine pollutant: Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) Symbol (fish and tree) · Special marking (IATA): · Special precautions for user Warning: Miscellaneous dangerous substances and articles · EMS Number: F-A,S-F· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: Product packaging conforms to 49 CFR 173.4 - Requirements for "Small Quantity Exceptions" · UN "Model Regulation": UN3082, Environmentally hazardous substances, liquid, n.o.s. (Bisphenol A Epoxy Resin), 9, III

### 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):

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 for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 8)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 7)

### · 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:

None of the ingredients is listed.

### · New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

#### · Pennsylvania Right-to-Know List:

None of the ingredients is listed.

### · Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

### · Cancerogenity categories

### · EPA (Environmental Protection Agency)

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.

- · 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

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: 07/02/2018
- · Date of preparation / last revision 07/02/2018 / 1
- · 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

(Contd. on page 9)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part A (04005)

(Contd. of page 8)

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 NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B

Skin Sens. 1: Skin sensitisation – Category 1

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



Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

### 1 Identification

- · Product identifier
- · Trade name: Double Bubble Epoxy General Purpose Part B (04005)
- · Relevant identified uses of the substance or mixture. Curing Agent
- · Application of the substance / the mixture Curing agent/ cross-linker/ Vulcanizing agent
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Royal Adhesives & Sealants 800 E. Anaheim Street Wilmington. CA 90744

(310) 830-9904

- · 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

· Classification of the substance or mixture



GHS05 Corrosion

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.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS05

GHS07

- · Signal word Danger
- · Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

### Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 1)

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

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

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 Health = 2

1 Fire = 1

PHYSICAL HAZARD  $\boxed{0}$  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:		
68410-23-1	Polyamide	50-100%
	Polyamine	2.5-10%
112-24-3	3,6-diazaoctanethylenediamine	≤2.5%

### 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 several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 2)

· 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.* 

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Protective clothing and respiratory protective device.

### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective clothing.

- · 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).

· 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.

· Protective Action Criteria for Chemicals

· PAC-1:		
112-24-3 3,6-diazaoctanethylenediamine	3 ppm	
· PAC-2:		
112-24-3 3,6-diazaoctanethylenediamine	14 ppm	
· PAC-3:		
112-24-3 3,6-diazaoctanethylenediamine	83 ppm	

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · 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: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

USA

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 3)

### 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:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

### 112-24-3 3,6-diazaoctanethylenediamine

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 (see listings below)
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · 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

· 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.
- · Body protection: Protective work clothing

### 9 Physical and chemical properties

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

Form: Liquid Color: Amber · Odor: Amine-like · Odor threshold: Not determined.

· Change in condition

Melting point: **Boiling point:** Undetermined · Flash point:  $> 97 \, ^{\circ}C \, (>206.6 \, ^{\circ}F)$ 

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

Undetermined.

(Contd. on page 5)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 4)

· Flammable limits:

Lower: Not Available Upper: Not Available

· Specific gravity at 20 °C (68 °F): 1.01

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· Solvent content:

VOC (Per EPA 24) 146 GMS/L

Solids content: Not available.

• 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 dangerous reactions known.
- · Conditions to avoid Avoid high temperatures. Avoid freezing.
- · Incompatible materials: Reacts with oxidizing agents.
- · Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Ammonia.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Causes severe skin burns.
- · on the eye:

Causes serious eye damage

Vapors may be irritating to the eyes.

- · Sensitization: Skin Contact May cause allergic skin reaction.
- · 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.

(Contd. on page 6)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 5)

### · 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.
- · 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:
- $\cdot$  **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· UN-Number · DOT · IMDG, IATA	Void not regulated UN3082
· UN proper shipping name	
$\cdot DOT$	not regulated
$\cdot$ IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S., MARINE POLLUTANT
$\cdot$ IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.

- · Transport hazard class(es)
- $\cdot DOT$

· Class not regulated

· IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles

· Label

(Contd. on page 7)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

	(Contd. of page
· Packing group	Not Regulated
$\cdot DOT$	not regulated
· IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
EMS Number:	F- $A$ , $S$ - $F$
· Transport in bulk according to Annex I	I of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Product packaging conforms to 49 CFR 173.4 - Requirements for
-	"Small Quantity Exceptions"
· UN ''Model Regulation'':	UN3082, Environmentally hazardous substances, liquid, n.o.s., 9, I

## 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):

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.

· TSCA new (21st Century Act) (Substances not listed)

Polyamine

- · 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:

112-24-3 3,6-diazaoctanethylenediamine

· New Jersey Special Hazardous Substance List:

112-24-3 3,6-diazaoctanethylenediamine

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(Contd. on page 8)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 7)

· Pennsylvania Right-to-Know List:

112-24-3 3,6-diazaoctanethylenediamine

· Pennsylvania Special Hazardous Substance List:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

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.

- · 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

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: 07/02/2018
- · Date of preparation / last revision 07/02/2018 / 1
- · 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

(Contd. on page 9)

Printing Date 07/02/2018 Revision Number 2 Revision Date 07/02/2018

Trade name: Double Bubble Epoxy General Purpose Part B (04005)

(Contd. of page 8)

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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