

Page 1/10

# Safety Data Sheet acc. to OSHA HCS

Printing Date 05/30/2017

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Revision Number 3

Revision Date 05/30/2017

Finning Dule 05/50/2017	Revision Number 5	Revision Date 03/30/2017
1 Identification		
· Product identifier		
• Trade name: <u>Double Bubble Epoxy</u> • Relevant identified uses of the subs • Application of the substance / the n	tance or mixture. Curing Agent	
<ul> <li>Details of the supplier of the safety</li> <li>Manufacturer/Supplier: Royal Adhesives &amp; Sealants</li> <li>800 E. Anaheim Street</li> <li>Wilmington. CA 90744</li> <li>(310) 830-9904</li> </ul>	data sheet	
· Information department: Environm	ent protection department.	
• Emergency telephone number:	A and Canada: 1 800 424 0200	
ChemTrec: Day or Night within USA Outside USA and Canada: +1 703-3		
2 Hazard(s) identification		
, and the second s		
• Classification of the substance or n	nixture	
GHS08 Health hazard		
Repr. 2 H361 Suspected of a	lamaging fertility or the unborn child.	
· · ·	mage to organs through prolonged or repo	eated exposure.
· · · · · · · · · · · · · · · · · · ·		
GHS05 Corrosion		
Skin Corr. 1C H314 Causes severe	skin burns and eye damage.	
Eye Dam. 1 H318 Causes seriou	s eye damage.	
GHS07		
Acute Tox. 4 H302 Harmful if swo	allowed	
	allergic skin reaction.	
STOT SE 3 H335 May cause an	-	
· Label elements		
	classified and labeled according to the Gl	obally Harmonized System (GHS).
$\wedge \wedge \diamond$		
$\vee \vee \vee$		
GHS05 GHS07 GHS08		

Printing Date 05/30/2017

**Revision Number 3** 

Revision Date 05/30/2017

# Trade name: Double Bubble Epoxy Machineable Part B (04002)

	ontd. of page 1)
Signal word Danger	
· 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.	
May cause respiratory irritation.	
May cause damage to organs through prolonged or repeated exposure.	
· Precautionary statements	
Do not breathe dusts or mists.	
Wear protective gloves/protective clothing/eye protection/face protection.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
Use only outdoors or in a well-ventilated area.	
Contaminated work clothing must not be allowed out of the workplace.	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
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 t	to do.
Continue rinsing.	
Immediately call a POISON CENTER/doctor.	
Specific treatment (see on this label).	
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
Wash contaminated clothing before reuse.	
IF exposed or concerned: Get medical advice/attention.	
If skin irritation or rash occurs: Get medical advice/attention.	
If swallowed: Rinse mouth. Do NOT induce vomiting.	
Get medical advice/attention if you feel unwell.	
Store locked up.	
Store in a well-ventilated place. Keep container tightly closed.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
· WETA raings (scale 0 - 4)	
Health = 3	
Fire = 1	
$\frac{3}{Reactivity} = 0$	
· HMIS-ratings (scale 0 - 4)	
$\frac{\text{HEALTH}}{3} Health = 3$	
FIRE 1 $Fire = 1$	
<b>PHYSICAL HAZARD</b> Physical Hazard = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
· <b>vPvB:</b> Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	

· **Description:** Mixture

(Contd. on page 3)

USA

Printing Date 05/30/2017

Revision Number 3

Revision Date 05/30/2017

Trade name: Double Bubble Epoxy Machineable Part B (04002)

		(Contd. of page 2)
· Hazardous	components:	
	Aromatic Amine	25-50%
80-05-7	4,4'-isopropylidenediphenol	25-50%
	Aliphatic Amine	10-25%
25068-38-6	Bisphenol A Epoxy Resin	2.5-10%
111-40-0	Diethylenetriamine (DETA)	2.5-10%

### 4 First-aid measures

#### · Description of first aid measures

- After inhalation:
- Supply fresh air or oxygen; call for doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- 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: Use water fog, dry chemical, foam, Carbon Dioxide. 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. 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

DAC 1

- 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:			
80-05-7	4,4'-isopropylidenediphenol	15 mg/m3	1
	Aliphatic Amine	13 mg/m3	1
25068-38-6	Bisphenol A Epoxy Resin	90 mg/m3	٦
		(Contd. on page 4	4)
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Printing Date 05/30/2017

Revision Number 3

Revision Date 05/30/2017

Trade name: Double Bubble Epoxy Machineable Part B (04002)

		(Contd. of page 3)
· PAC-2:		
80-05-7	4,4'-isopropylidenediphenol	110 mg/m3
	Aliphatic Amine	140 mg/m3
25068-38-6	Bisphenol A Epoxy Resin	990 mg/m3
· PAC-3:		
80-05-7	4,4'-isopropylidenediphenol	650 mg/m3
	Aliphatic Amine	850 mg/m3
25068-38-6	Bisphenol A Epoxy Resin	5,900 mg/m3

### 7 Handling and storage

#### · Handling:

- · Precautions for safe handling
- Open and handle receptacle with care.
- 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.
- · 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:

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 skin. Avoid contact with the eyes and skin.

· Breathing equipment:

Not necessary if room is well-ventilated.

In the absence of adequate ventilation, use NIOSH-certified respiratory protection when chemical exposure is excessive or above an established exposure limit. Comply with OSHA 29 CFR 1910.134.

• Protection of hands:



Protective gloves

(Contd. on page 5)

USA

Printing Date 05/30/2017

Revision Number 3

Revision Date 05/30/2017

### Trade name: Double Bubble Epoxy Machineable Part B (04002)

(Contd. of page 4)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  $\cdot$  **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

General Information		
Appearance:		
Form:	Liquid	
Color:	Amber	
Odor:	Amine-like	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point:	Undetermined.	
Boiling.point: Flash point:	> 96 °C (> 205 °F)	
Ignition temperature:	420 °C (788 °F)	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammable limits:		
Lower:	Not determined	
Upper:	Not determined	
Specific gravity at 20 °C (68	8 <b>•F):</b> 1.09 g/cm <sup>3</sup> (9.096 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined	
Solubility in / Miscibility wit	th	
Water:	Not miscible or difficult to mix.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
VOC (Per EPA 24)	161.8 GMS/L	
Solids content:	63.5 %	
		(Contd. on page

(Contd. of page 5)

## Safety Data Sheet acc. to OSHA HCS

Printing Date 05/30/2017

**Revision Number 3** 

Revision Date 05/30/2017

Trade name: Double Bubble Epoxy Machineable Part B (04002)

• Other information

No further relevant information available.

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

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions No further information is available.

· Conditions to avoid No further relevant information available.

· Incompatible materials: Reacts with strong oxidizing agents.

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Ammonia

### **11 Toxicological information**

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

### Aromatic Amine

Oral LD50 738 mg/kg (rat)

 $Dermal \ LD50 \ >2000 \ mg/kg \ (rat)$ 

#### 80-05-7 4,4'-isopropylidenediphenol

Oral LD50 3250 mg/kg (rat)

Dermal LD50 3000 mg/kg (rabbit)

### · Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• on the eye: Causes serious eye damage

· Sensitization: Skin Contact - Sensitization possible through skin contact.

· Additional toxicological information:

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

#### · 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.

(Contd. on page 7)

USA

(Contd. of page 6)

# Safety Data Sheet acc. to OSHA HCS

Printing Date 05/30/2017

**Revision Number 3** 

Revision Date 05/30/2017

#### Trade name: Double Bubble Epoxy Machineable Part B (04002)

· Behavior in	environmental	systems:
Demartor in	cnyn onnicmu	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:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Diethylenetriamine, Aliphatic Amine)
IMDG	CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE, Aliphat Amine), MARINE POLLUTANT
IATA	CORROSIVE LIQUID, N.O.S. (DIETHYLENETRIAMINE, Aliphat Amine)
Transport hazard class(es)	
DOT	
CORROSIVE	
Class	8 Corrosive substances
Label	8
IMDG	
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Printing Date 05/30/2017

**Revision Number 3** 

Revision Date 05/30/2017

Trade name: Double Bubble Epoxy Machineable Part B (04002)

	(Contd. of page
Label	8
IATA	
P	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: Aromatic
	Amine
Marine pollutant:	Yes (DOT)
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
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".
DOT	
Remarks:	Special marking with the symbol (fish and tree).
UN "Model Regulation":	UN 1760 CORROSIVE LIQUIDS, N.O.S.
C C	(DIETHYLENETRIAMINE, ALIPHATIC AMINE), 8, III,
	ENVIRONMENTALLY HAZARDOUS

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# **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):

80-05-7 4,4'-isopropylidenediphenol

· 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.

(Contd. on page 9)

USA

Printing Date 05/30/2017

Revision Number 3

Revision Date 05/30/2017

Trade name: Double Bubble Epoxy Machineable Part B (04002)

(Contd. of page 8)

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· Chemicals known to cause reproduct	tive toxicity for females:
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80-05-7 4,4'-isopropylidenediphenol

· 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:

80-05-7 4,4'-isopropylidenediphenol

· New Jersey Special Hazardous Substance List:

None of the ingredients is listed.

· Pennsylvania Right-to-Know List:

80-05-7 4,4'-isopropylidenediphenol

· Pennsylvania Special Hazardous Substance List:

80-05-7 4,4'-isopropylidenediphenol

#### · 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: 05/30/2017

• Date of preparation / last revision 05/30/2017 / 2

• Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 10)

Printing Date 05/30/2017

Revision Number 3

Revision Date 05/30/2017

# Trade name: Double Bubble Epoxy Machineable Part B (04002)

	(Contd. of page
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	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1C: Skin corrosion/irritation – Category 1C	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	