



Printing Date 08/03/2016 Revision Number 2 Revision Date 08/03/2016

1 Identification

- · Product identifier
- · Trade name: Double Bubble Epoxy Machineable Part A (04002)
- · 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

Wear protective gloves.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

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

Continue rinsing.

Specific treatment (see on this label).

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

Call a POISON CENTER/doctor if you feel unwell.

Wash contaminated clothing before reuse.

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

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

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.

· Additional information:

20.5 % of the mixture consists of component(s) of unknown toxicity.

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



Health = 2 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 2
FIRE 1
PHYSICAL HAZARD 0

 $\frac{2}{1}$ 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:			
25068-38-6	Bisphenol A Epoxy Resin	50-100%	
7429-90-5	Aluminium	5-20%	
3101-60-8	Glycidyl Ether	2.5-10%	
546-93-0	Magnesite	≤0.5%	

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.

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- · 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.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth 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.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Use only in well ventilated areas.

- · 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.

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.

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

546-93-0 Magnesite

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV TLV withdrawn

- · 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 Gray

Odor: Characteristic
 Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point: Undetermined.

Boiling point: > 96 °C (> 205 °F)

· Flammability (solid, gaseous): Not applicable.

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Ignition temperature:	400 °C (752 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Not determined.
Vapor pressure:	Not determined.
Specific gravity at 20 °C (68 °F):	1.47 g/cm³ (12.267 lbs/gal)
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 r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC (Per EPA 24)	32.6 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 No further relevant information available.
- · Incompatible materials: Reacts with oxidizing agents.
- · 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: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · 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.

May be slightly toxic and may be harmful if swallowed.

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

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USA

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Irritant

· Carcinogenic categories				
· IARC (Inter	national Agency for Research on Cancer)			
14807-96-6	Talc (Mg3H2(SiO3)4)	3		
106-89-8	1-chloro-2,3-epoxypropane	2A		
· NTP (Natio	nal Toxicology Program)			
106-89-8 1-chloro-2,3-epoxypropane				
· 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.

UN-Number	
DOT	not regulated
· ADR, IMDG, IATA	UN3082
· UN proper shipping name	
$\cdot DOT$	not regulated
· ADR	3082 Environmentally hazardous substances, liquid, n.o.s.
	(Bisphenol A Epoxy Resin)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (Bisphenol A Epoxy Resin), MARINE POLLUTANT

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

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IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
Transport hazard class(es)	
DOT	
Class	not regulated
ADR, IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles 9
Packing group	
DOT	not regulated
ADR, 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
Danger code (Kemler):	90
EMS Number:	F- A , S - F
Stowage Category	A
Transport in bulk according to Annex	
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'':	UN 3082 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):

106-89-8 1-chloro-2,3-epoxypropane

· Section 313 (Specific toxic chemical listings):

7429-90-5 Aluminium

106-89-8 1-chloro-2,3-epoxypropane

· 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:

106-89-8 1-chloro-2,3-epoxypropane

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

(Contd. of page 7) · Chemicals known to cause reproductive toxicity: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: 106-89-8 1-chloro-2,3-epoxypropane · 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: 14807-96-6 Talc (Mg3H2(SiO3)4) 546-93-0 Magnesite 106-89-8 1-chloro-2,3-epoxypropane · New Jersey Special Hazardous Substance List: 14807-96-6 Talc (Mg3H2(SiO3)4) CA106-89-8 1-chloro-2,3-epoxypropane CA, MU, F3, R2 · Pennsylvania Right-to-Know List: 14807-96-6 Talc (Mg3H2(SiO3)4) 106-89-8 1-chloro-2,3-epoxypropane · Pennsylvania Special Hazardous Substance List: 106-89-8 1-chloro-2,3-epoxypropane ES · Cancerogenity categories · EPA (Environmental Protection Agency) 106-89-8 1-chloro-2,3-epoxypropane *B*2 · TLV (Threshold Limit Value established by ACGIH) 14807-96-6 Talc (Mg3H2(SiO3)4) *A4* 7429-90-5 Aluminium A4106-89-8 1-chloro-2,3-epoxypropane *A3* · MAK (German Maximum Workplace Concentration) 14807-96-6 Talc (Mg3H2(SiO3)4) 3B 106-89-8 1-chloro-2,3-epoxypropane 2 · NIOSH-Ca (National Institute for Occupational Safety and Health) 106-89-8 1-chloro-2,3-epoxypropane · 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

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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: 08/03/2016
- · Date of preparation / last revision 08/03/2016 / 1
- · Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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