

Revision Number 1 Reviewed on 12/27/2012

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

- · Product identifier
- · Trade name: Double Bubble Epoxy Machineable Part A (04002)
- · Relevant identified uses of the substance or mixture and uses advised against Adhesive
- · Application of the substance / the preparation Adhesives
- · 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

· Classification of the substance or mixture

Skin Irrit. 2 H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

Acute Tox. 5 H333 May be harmful if inhaled.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Irritant

Irritating to eyes and skin. May cause sensitisation by skin contact.

Dangerous for the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Classification system:

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

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with directives on hazardous materials.

· Code letter and hazard designation of product:

Irritant

Dangerous for the environment

· Hazard-determining components of labelling:

Epoxy Resin

· Risk phrases:

Irritating to eyes and skin.

May cause sensitisation by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

Keep out of the reach of children.

Avoid contact with skin and eyes.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Wear suitable gloves and eye/face protection.

In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

If swallowed, seek medical advice immediately and show this container or label.

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· 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)



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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Job-Size Double-Bubble® Packages Epoxy Adhesive (Yellow Package)

· Dangerous components:

and Non-Dangerous Components:

25068-38-6		50-100%
	💠 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
14807-96-6	Talc (Mg3H2(SiO3)4)	10-25%
7429-90-5	Aluminium	5-20%
		2.5-10%
	♦ Acute Tox. 3, H331; Acute Tox. 5, H303; Acute Tox. 5, H313	
	Amorphous Fumed Silica	≤2.5%
	Modified Epoxy	≤2.5%

· Additional information: For the wording of the listed risk phrases refer to section 15.

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:

Wipe excess from skin.

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: Seek medical treatment.

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

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- · 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
- · 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

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 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.

(Contd. on page 4)

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

(Contd. of page 3)

- · 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.

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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough 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.



Tightly sealed goggles

· Body protection:

Emergency showers and eye wash stations should be available.

Protective work clothing

9 Physical and chemical properties

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

Form: Liquid Color: Gray

Odor: CharacteristicOdour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point:Undetermined.Boiling point:Undetermined.

• Flash point: > 96°C (> 205 °F)

· Flammability (solid, gaseous): Not applicable.

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

		(Contd. of page	
Ignition temperature:	400°C (752 °F)		
Decomposition temperature:	Not determined.		
Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Not determined.		
Flammable limits:			
Lower:	Not determined.		
Upper:	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.		
Vapour density	Not determined.		
Evaporation rate	Not determined.		
Solubility in / Miscibility with			
Water:	Not miscible or difficult to mix.		
Segregation coefficient (n-octonol/wa	tter): Not determined.		
Viscosity:			
Dynamic:	Not determined.		
Kinematic: Not determined.			
Solvent content:			
Organic solvents:	0.0 %		
VOC (Per EPA 24)	32.6 GMS/L		
Solids content:	95.5 %		
Other information	No further relevant information available.		

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:
- · 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.

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

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)				
14807-96-6	Talc (Mg3H2(SiO3)4)	3		
106-89-8	1-chloro-2,3-epoxypropane	2A		
· NTP (Natio	· NTP (National Toxicology Program)			
106-89-8 1	-chloro-2,3-epoxypropane	R		

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.
- · 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.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADN		
· Class	Void	

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

	(Contd. of page
· ADR, IMDG, IATA	
· Class	Void
	Not Regulated
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Epoxy Resin - This product is not considered to be DOT hazardous when transported via any mode within the United States. However, this product is transported to or within the European Community it is considered to be an Environmentally Hazardous Substance,

15 Regulatory information

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

· 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 (Envir	onmental Protection Agency)	
106-89-8 1	chloro-2,3-epoxypropane	B2
· TLV (Thres	hold Limit Value established by ACGIH)	
14807-96-6	Talc (Mg3H2(SiO3)4)	A4
7429-90-5	Aluminium	A4
106-89-8	1-chloro-2,3-epoxypropane	A3
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Trade name: Double Bubble Epoxy Machineable Part A (04002)

· MAK (German Maximum Workplace Concentration)

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| 3B | 2

14807-96-6 Talc (Mg3H2(SiO3)4)

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

· 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

· Risk phrases:

Irritating to eyes and skin.

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

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.

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)





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I Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Double Bubble Epoxy Machineable Part B (04002)
- · Relevant identified uses of the substance or mixture and uses advised against Adhesive
- · Application of the substance / the preparation Adhesives
- · 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 Phone Number: 574-246-5000

- · Information department: Environment protection department.
- · Emergency telephone number: ChemTrec: UNITED STATES 1(800)424-9300 INTERNATIONAL 703-527-3887

2 Hazards identification

· Classification of the substance or mixture



GHS08 Health hazard

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

H318 Causes serious eye damage.



GHS07

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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







GHS05

GHS07

GHS08

· Signal word Danger

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· Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious 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

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Do not breathe dust/fume/gas/mist/vapours/spray.

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 or doctor/physician.

Specific treatment (see on this label).

Store locked up.

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

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



Health = 3 Fire = 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

· Description:

Job-Size Double-Bubble® Packages

Epoxy Adhesive (Yellow Package)

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.

	Aromatic Amine	25-50%
80-05-7	4,4'-isopropylidenediphenol	25-50%
	Aliphatic Amine	10-25%
	Trade Secret	2.5-10%
111-40-0	Diethylenetriamine (DETA)	2.5-10%

USA

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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:

Wipe excess from skin.

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: Seek medical treatment.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting 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

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: Store in cool, dry conditions in well sealed receptacles.

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· 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

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· 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.



Tightly sealed goggles

· Body protection:

Emergency showers and eye wash stations should be available.

Protective work clothing

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· Information on basic physic	al and chemical properties	
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Amber	
· Odor:	Amine-like	
· Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined.	
· 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.	
· Specific gravity at 20 °C (68	°F): 1.09 g/cm³ (9.096 lbs/gal)	
· Solubility in / Miscibility wit	h	
Water:	Not miscible or difficult to mix.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (Per EPA 24)	161.8 GMS/L	

10 Stability and reactivity

Solids content:

· Other information

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

No further relevant information available.

- · Possibility of hazardous reactions Strong oxidizing agents.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

63.5 %

· Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Ammonia.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:			
Aromati	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)		
		(Contd. on page 6)		

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- · Primary irritant effect:
- · on the skin: Corrosive to the skin.
- · on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Skin Contact Sensitization possible through skin contact.
- · Additional toxicological information:

Ingestion - May cause severe irritation to mouth, throat and stomach.

Inhalation - Vapors may be severely irritating to the respiratory tract.

A two year feeding study in rats showed the Aromatic Amine caused effects in the Pancreas, LIver, Thyroid and eyes. An increase in the number of tumors in the Liver and Thyroid of male rats and in the Liver and possibly mammary gland of female rats was found.

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

The product is not subject to classification 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.

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: Very 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.

Very toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

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.

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- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

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• **DOT** UN1760 • **ADR, IMDG, IATA** 1760

· UN proper shipping name

· ADR 1760 CORROSIVE LIQUID, N.O.S. (Aromatic Amine)
· IMDG, IATA CORROSIVE LIQUID, N.O.S. (Aromatic Amine)

· Transport hazard class(es)

 $\cdot DOT$



· Class 8 Corrosive substances.

· Label

 $\cdot ADR$





· Class 8 Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances.

· Label 8

· Packing group

· DOT, ADR, IMDG, IATA III

• Environmental hazards: Product contains environmentally hazardous substances: Aromatic

Amine

· Special marking (ADR): Symbol (fish and tree)

· Special precautions for user Warning: Corrosive substances

· 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".

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· UN "Model Regulation":

UN1760, CORROSIVE LIQUID, N.O.S., 8, 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):

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.

· 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)

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.

· OSHA-Ca (Occupational Safety & Health Administration)

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 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.

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· 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