



Printing Date 03/21/2016

Revision Number 4

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1 Identification

- · Product identifier
- · Trade name: WS-8020 RC B-2 Base
- · Relevant identified uses of the substance or mixture. Sealant
- · Application of the substance / the mixture Sealant
- · 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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Avoid release to the environment.

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

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



Health = 1 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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

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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture

· Hazardous e	components:				
68611-50-7 Polysulphide Polymer					
	proprietary modified polysulphide polymer	5-20%			
	calcium carbonate	5-20%			
13463-67-7	titanium dioxide	2.5-10%			
108-95-2		≤0.5%			
	o-cresol	≤0.09%			
50-00-0	formaldehyde	≤0.03%			

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.
- · 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).

Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

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Safety Data Sheet acc. to OSHA HCS

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· 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.

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: Store away from oxidizing agents.
- · 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; see item 7.
- · Control parameters

· Components with lin	nit values t	hat req	uire monito	oring at th	he workplace:
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471-34-1 calcium carbonate

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

13463-67-7 titanium dioxide

PEL Long-term value: 15* mg/m³

*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³ withdrawn from NIC

108-95-2 phenol

PEL Long-term value: 19 mg/m³, 5 ppm

Skin

REL Long-term value: 19 mg/m³, 5 ppm

Ceiling limit value: 60* mg/m³, 15.6* ppm

*15-min; Skin

TLV Long-term value: 19 mg/m³, 5 ppm

Skin; BEI

95-48-7 o-cresol

PEL Long-term value: 22 mg/m³, 5 ppm

Skin

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Safety Data Sheet acc. to OSHA HCS

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Trade name: WS-8020 RC B-2 Base

REL Long-term value: 10 mg/m³, 2.3 ppm

TLV Long-term value: 20* mg/m³

Skin; *as inhalable fraction and vapor

50-00-0 formaldehyde

PEL Short-term value: 2 ppm

Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)

REL Long-term value: 0.016 ppm

Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A

TLV Ceiling limit value: 0.37 mg/m³, 0.3 ppm

DSEN; RSEN

· Ingredients with biological limit values:

108-95-2 phenol

BEI 250 mg/g creatinine

Medium: urine Time: end of shift

Parameter: Phenol with hydrolysis (background, nonspecific)

- · 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.

Wash hands before breaks and at the end of work.

- · 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:

Paste

Color: Whitish

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· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· Change in condition		
Melting point:	Undetermined.	
· Flash point:	> 100 °C (> 212 °F)	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Specific gravity at 20 °C (68	PF): 1.4 g/cm³ (11.683 lbs/gal)	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
VOC (Per EPA 24)	Not Available GMS/L	
Solids content:	not available	
· Other information	Grams VOC/Liter [less water. less exempts] 9.4	

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 strong oxidizing agents.
- · Hazardous decomposition products:

Carbon Dioxide and Carbon Monoxide. Oxides of Sulphur. Trace amounts of Formaldehyde, Phenol, Hydrogen Sulphide.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: May irritate the skin.
- · on the eye: May irritate the eye.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories

IARC (International Agency for Research on Cancer)	
13463-67-7 titanium dioxide	28
108-95-2 phenol	3
50-00-0 formaldehyde	1

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· NTP (National Toxicology Program)

50-00-0 formaldehyde

K

· OSHA-Ca (Occupational Safety & Health Administration)

50-00-0 formaldehyde

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: Harmful to 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, ADR, ADN, IMDG, IATA	not regulated	
UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
DOT, ADN		
Class	not regulated	
ADR, IMDG, IATA		
Class	not regulated	
	Not Regulated	
· Packing group		
DOT, ADR, ÎMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	

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· 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:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	not regulated	

15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture Sara Section 355 (extremely hazardous substances): 108-95-2 phenol 95-48-7 o-cresol Section 313 (Specific toxic chemical listings): 108-95-2 phenol 95-48-7 o-cresol

· TSCA (Toxic Substances Control Act):

50-00-0 formaldehyde

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

· Proposition 65

· Chemicals known to cause cancer:	
13463-67-7 titanium dioxide	
50-00-0 formaldehyde	
· Chemicals known to cause reproductive toxicity:	

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.

	Right-to-Know List:	
13463-67-7	titanium dioxide	
108-95-2	phenol	
95-48-7	o-cresol	
50-00-0	formaldehyde	
New Jersey	Special Hazardous Substance List:	
108-95-2 p		MU, F2
95-48-7 o	-cresol	CA, F2
50-00-0 fe	ormaldehyde	CA, CO, MU, F4

13463-67-7 titanium dioxide

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109 05 2 phanel	(Contd. of page
108-95-2 phenol	
95-48-7 o-cresol	
50-00-0 formaldehyde	
· Pennsylvania Special Hazardous Substance List:	
108-95-2 phenol	E
95-48-7 o-cresol	E
50-00-0 formaldehyde	E
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
108-95-2 phenol	D,
95-48-7 o-cresol	C
50-00-0 formaldehyde	B1
· TLV (Threshold Limit Value established by ACGIH)	
13463-67-7 titanium dioxide	A
108-95-2 phenol	A
50-00-0 formaldehyde	A
· MAK (German Maximum Workplace Concentration)	1
13463-67-7 titanium dioxide	32
108-95-2 phenol	31
95-48-7 o-cresol	32
50-00-0 formaldehyde	4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	1
13463-67-7 titanium dioxide	
50-00-0 formaldehyde	

- · National regulations:
- · Water hazard class: Water hazard class 3 (Self-assessment): extremely 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: 07/22/2011
- · Date of preparation / last revision 03/21/2016 / 3
- · 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)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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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

BEI: Biological Exposure Limit
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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1 Identification

- · Product identifier
- · Trade name: WS-8020 RC B-2 CA
- · Relevant identified uses of the substance or mixture. Activator
- · Application of the substance / the mixture Activator
- · 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

Acute Tox. 4

H302 Harmful if swallowed.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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

Harmful if swallowed.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Avoid release to the environment.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.

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

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



Health = 2 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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 d	components:	
1313-13-9	manganese dioxide	50-100%
61788-32-7	Hydrogenated Terphenyl	25-50%
26140-60-3	Terphenyl	≤2.5%
971-15-3	Dipentamethylene Thiuram Hexasulphide	≤2.5%
557-05-1	zinc distearate, pure	≤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. Then consult a doctor.
- · After swallowing:

Immediately call a doctor.

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 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.

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- · 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

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal state and local regulations.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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: Store away from oxidizing agents.
- · 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; see item 7.
- · Control parameters

	· Components	with li	imit value.	s that requir	e monitoring	at the workplace
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1313-13-9 manganese dioxide

PEL | Ceiling limit value: 5 mg/m³

as Mn

REL Short-term value: 3 mg/m³

Long-term value: 1 mg/m3

as Mn

TLV Long-term value: 0.02* 0.1* mg/m³

as Mn; *respirable **inhalable fraction

26140-60-3 Terphenyl

STEL Short-term value: C 5 mg/m³

557-05-1 zinc distearate, pure

PEL Long-term value: 15* 5** mg/m³

*total dust **respirable fraction

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

TLV Long-term value: 10 mg/m³

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- · 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.

Wash hands before breaks and at the end of work.

- · 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:



Tightly sealed goggles

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: Paste Color: Black

· Odor: Characteristic
· Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point: Undetermined.

Boiling point: > 99 °C (> 210 °F)

• Flammability (solid, gaseous): Not applicable. • Ignition temperature: 373 °C (703 °F)

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· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Vapor pressure:	Not determined.	
Specific gravity at 20 °C (68 °F):	1.7 g/cm³ (14.187 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	r): Not determined.	
· Viscosity:		***************************************
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (Per EPA 24)	Not Available GMS/L	
Solids content:	not available	
· Other information	Grams VOC/Liter [less water. less exempts] 2.4	

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:

Hydrogen chloride (HCl)

Hydrocarbons

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are	relevant for classification:
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61788-32-7 Hydrogenated Terphenyl

Oral	LD50	>12500 mg/kg (rat)
	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	>4.7 mg/l (rat)

- · Primary irritant effect:
- · on the skin: May irritate the skin.
- · on the eye: May irritate the eye.
- · Sensitization: No sensitizing effects known.

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· Additional toxicological information:

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The man dust above the fellowing desired

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

- · 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: Harmful to 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.

14 Transport information

- · UN-Number
- · DOT, ADR, ADN, IMDG, IATA not regulated
- · UN proper shipping name
- · DOT, ADR, ADN, IMDG, IATA not regulated
- · Transport hazard class(es)
- · DOT, ADN
- · Class not regulated

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· ADR, IMDG, IATA		
·Class	not regulated Not Regulated	
· Packing group · DOT, ADR, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· 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:	Not dangerous according to the above specifications.	
· UN "Model Regulation":	not regulated	

15 Regulatory information Safety, health and environme

- · 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):
- 1313-13-9 manganese dioxide
- 557-05-1 zinc distearate, pure
- 7664-38-2 phosphoric acid
- · 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.

· 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:
26140-60-3	Terphenyl
557-05-1	zinc distearate, pure
7664-38-2	phosphoric acid

· New Jersey Special Hazardous Substance List:

7664-38-2 phosphoric acid

CO

· Pennsylvania Right-to-Know List:

26140-60-3 Terphenyl

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		(Contd. of page
557-05-	I zinc distearate, pure	
7664-38-	2 phosphoric acid	
· Pennsylva	nia Special Hazardous Substance List:	
557-05-1	zinc distearate, pure	l H
7664-38-2	phosphoric acid	I
· Canceroge	enity categories	
	ironmental Protection Agency)	
1313-13-9	manganese dioxide	D
557-05-1	zinc distearate, pure	D, I, I
· TLV (Thre	eshold Limit Value established by ACGIH)	
None of th	e ingredients listed.	
· MAK (Ger	rman Maximum Workplace Concentration)	
None of th	e ingredients is listed.	
	a (National Institute for Occupational Safety and Health)	
· NIOSH-C		

- · National regulations:
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly 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: 07/21/2011
- · Date of preparation / last revision 02/29/2016 / 3
- · 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)

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

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PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity, Hazard Category 4
Aquatic Acute 3: Hazardous to the aquatic environment - AcuteHazard, Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3