

## Safety Data Sheet acc. to OSHA HCS

Printing Date 05/17/2015

Revision Number 3

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### 1 Identification

- **Product identifier**
- **Trade name:** *WS-8020 RC Class A-2 Part B*
- **Relevant identified uses of the substance or 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**



GHS02 Flame

*Flam. Liq. 2      H225 Highly flammable liquid and vapor.*



GHS07

*Eye Irrit. 2A      H319 Causes serious eye irritation.*

*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**



GHS02   GHS07

- **Signal word** *Danger*
- **Hazard statements**  
*Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Harmful to aquatic life with long lasting effects.*
- **Precautionary statements**  
*If medical advice is needed, have product container or label at hand.  
Keep out of reach of children.  
Read label before use.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

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Use explosion-proof electrical/ventilating/lighting/equipment.

Wear protective gloves / eye protection / face protection.

Wear eye protection / face protection.

Ground/bond container and receiving equipment.

Keep container tightly closed.

Use only non-sparking tools.

Avoid release to the environment.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

**IF ON SKIN (or hair):** Remove/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 to do.

Continue rinsing.

**If eye irritation persists:** Get medical advice/attention.

**In case of fire:** Use for extinction: CO<sub>2</sub>, powder or water spray.

Store in a well-ventilated place. Keep cool.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

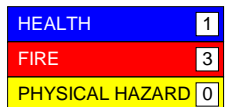


Health = 1

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1

FIRE 3 Fire = 3

PHYSICAL HAZARD 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:**

68611-50-7	Polysulphide Elastomer	50-100%
68611-50-7	Polysulphide Polymer	5-20%
141-78-6	ethyl acetate	5-20%
13463-67-7	titanium dioxide	2.5-10%
108-95-2	phenol	≤0.5%
95-48-7	o-cresol	≤0.09%
50-00-0	formaldehyde	≤0.03%

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### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Remove person to fresh air and provide oxygen if breathing is difficult. Get immediate medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for 20 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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
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).  
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.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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.

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- **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:**

**141-78-6 ethyl acetate**

PEL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

REL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

TLV Long-term value: 1440 mg/m<sup>3</sup>, 400 ppm

**13463-67-7 titanium dioxide**

PEL Long-term value: 15\* mg/m<sup>3</sup>  
\*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m<sup>3</sup>  
withdrawn from NIC

**108-95-2 phenol**

PEL Long-term value: 19 mg/m<sup>3</sup>, 5 ppm  
Skin

REL Long-term value: 19 mg/m<sup>3</sup>, 5 ppm  
Ceiling limit value: 60\* mg/m<sup>3</sup>, 15.6\* ppm  
\*15-min; Skin

TLV Long-term value: 19 mg/m<sup>3</sup>, 5 ppm  
Skin; BEI

**95-48-7 o-cresol**

PEL Long-term value: 22 mg/m<sup>3</sup>, 5 ppm  
Skin

REL Long-term value: 10 mg/m<sup>3</sup>, 2.3 ppm

TLV Long-term value: 20\* mg/m<sup>3</sup>  
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/m<sup>3</sup>, 0.3 ppm  
(SEN) NIC-DSEN; RSEN

· **Ingredients with biological limit values:**

**108-95-2 phenol**

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BEI 250 mg/g creatinine  
 Medium: urine  
 Time: end of shift  
 Parameter: Phenol with hydrolysis (background, nonspecific)

- **Additional information:**  
 Formaldehyde - Trace amounts of Formaldehyde are present in the mixture. However, it is unlikely that this chemical will be released as the curing process is at ambient temperature.  
 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:**  
 In the absence of adequate ventilation, use NIOSH-certified respiratory protection for particulate matter/organic vapor. 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**  
 Neoprene gloves  
 Nitrile rubber, NBR  
 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.
- **Eye protection:**  
 Safety glasses with side shields.



Tightly sealed goggles

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

<b>Form:</b>	Paste
<b>Color:</b>	Off White
- **Odor:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

<b>Melting point:</b>	Undetermined.
<b>Boiling point:</b>	

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· <b>Flash point:</b>	11 °C (52 °F)
· <b>Ignition temperature:</b>	460 °C (860 °F)
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Flammable limits:</b>	
<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	11.5 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	97 hPa (73 mm Hg)
· <b>Specific gravity at 20 °C (68 °F):</b>	1.33 g/cm <sup>3</sup> (11.099 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC (Per EPA 24)</b>	not available GMS/L
<b>Solids content:</b>	not available
· <b>Other information</b>	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** No dangerous reactions known.
- **Conditions to avoid** Avoid high temperatures. Avoid freezing.
- **Incompatible materials:** Reacts with 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:**  
Irritating effect.  
Vapors may be irritating to the eyes.
- **Sensitization:** No sensitizing effects known.

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- **Additional toxicological information:**

*Ingestion - May be harmful if ingested.*

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

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

*Irritant*

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
108-95-2	phenol	3
50-00-0	formaldehyde	1

- **NTP (National Toxicology Program)**

50-00-0	formaldehyde	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

50-00-0	formaldehyde	
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### 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.

- **Ecotoxicological 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, IMDG, IATA** UN1133

- **UN proper shipping name**

· **DOT** Adhesives

· **ADR** 1133 Adhesives

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· **IMDG, IATA****ADHESIVES**· **Transport hazard class(es)**· **DOT**· **Class**

3 Flammable liquids

· **Label**

3

· **ADR, IMDG, IATA**· **Class**

3 Flammable liquids

· **Label**

3

· **Packing group**· **DOT, ADR, IMDG, IATA**

II

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):**

33

· **EMS Number:**

F-E,S-E

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

The Packing Group assignment for this material is based on 49 CFR 173.121. PG III may be used provided the capacity of packaging is not more than 30L (7.9 gallons).

· **UN "Model Regulation":**

UN1133, Adhesives, 3, II

## 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

50-00-0 formaldehyde

· **Section 313 (Specific toxic chemical listings):**

108-95-2 phenol

95-48-7 o-cresol

50-00-0 formaldehyde

· **TSCA (Toxic Substances Control Act):**

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

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· **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.

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

108-95-2	phenol	D, I
95-48-7	o-cresol	C
50-00-0	formaldehyde	B1

· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	titanium dioxide	A4
108-95-2	phenol	A4
50-00-0	formaldehyde	A2

· **MAK (German Maximum Workplace Concentration)**

13463-67-7	titanium dioxide	3A
108-95-2	phenol	3B
95-48-7	o-cresol	3A
50-00-0	formaldehyde	4

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

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:** 09/30/2009

· **Date of preparation / last revision** 05/17/2015 / 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)

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

ICAO: International Civil Aviation Organisation

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*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)**ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**IMDG: International Maritime Code for Dangerous Goods**DOT: US Department of Transportation**IATA: International Air Transport Association**ACGIH: American Conference of Governmental Industrial Hygienists**EINECS: European Inventory of Existing Commercial Chemical Substances**ELINCS: European List of Notified Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**Flam. Liq. 2: Flammable liquids, Hazard Category 2**Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A**Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

USA