



Printing Date 09/11/2018 Revision Number 9 Revision Date 09/11/2018

1 Identification

· Product identifier

· Trade name: 12232 SolidSeal (Black)

· Article number: 12232

· 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 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: 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



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

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

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



GHS08

- · Signal word Danger
- · Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

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· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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

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

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

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

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Store locked up.

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

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



Health = 2 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



2 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:	
	polyurethane prepolymer	25-50%
1330-20-7	xylene	2.5-10%
90622-57-4	C9-12-Iso-alkanes	≤2.5%
100-41-4	ethylbenzene	<i>≤</i> 1%
1333-86-4	Carbon black	≤1%

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.

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- · 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: 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

· Advice for firefighters

Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

· 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:

Pick up mechanically.

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.

· Protective Action Criteria for Chemicals

PAC-1:	
1330-20-7 xylene	130 ppm
100-41-4 ethylbenzene	33 ppm
67-56-1 methanol	530 ppm
· PAC-2:	
1330-20-7 xylene	920* ppm
100-41-4 ethylbenzene	1100* ppn
67-56-1 methanol	2,100 ppm
· PAC-3:	
1330-20-7 xylene	2500* ppn
100-41-4 ethylbenzene	1800* ppn
67-56-1 methanol	7200* ppn

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7 Handling and storage

- · Handling:
- · Precautions for safe handling

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 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.

Protect from heat and direct sunlight.

Protect product from freezing.

Store in dry conditions.

· 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

1330-20-7 vylene

· Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

1330	-20-7 xytene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m³, 150 ppm
	Long-term value: 435 mg/m³, 100 ppm
TLV	Short-term value: 651 mg/m³, 150 ppm
	Long-term value: 434 mg/m³, 100 ppm
	BEI
100-4	41-4 ethylbenzene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm
	Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 87 mg/m³, 20 ppm
	BEI
1333	-86-4 Carbon black
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³
	*0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³
	*inhalable fraction
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· Ingredients with biological limit values:

1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

Medium: end-exhaled air Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

· 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:

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· Protection of hands:



Protective gloves

· Material of gloves

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.

- · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Viton
- · As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
- 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: Black

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Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammable limits:		
Lower:	Not Available	
Upper:	Not Available	
Vapor pressure:	Not determined.	
Specific gravity at 20 °C (68 °F):	1.17 g/cm³ (9.76365 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Insoluble	
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	Not available	
Solids content:	Not available.	
Other information	VOC's - 69.3 grams/liter	

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 Heat, flames, sparks.
- · Incompatible materials:

Reacts with amines.

Reacts with alcohols.

Reacts with water

· Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Sulfur oxides (SOx)

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Hydrogen chloride (HCl) Hydrocarbons (Contd. of page 6)

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: Prolonged or repeated contact may cause sensitization to the skin and lungs.
- · Additional toxicological information:

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

· Carcinogenic categories

Curcinoge	in cureyones	
· IARC (Inte	ernational Agency for Research on Cancer)	
1330-20-7	xylene	3
100-41-4	ethylbenzene	2 <i>B</i>
1333-86-4	Carbon black	2B
· NTP (Nati	onal Toxicology Program)	
None of the	e ingredients is listed.	
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	e 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.
- · 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.

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UN-Number	
DOT, ADN, IMDG, IATA	not regulated
· UN proper shipping name	
· DOT, ADN, IMDG, IATA	not regulated
· Transport hazard class(es)	
DOT, ADN, IMDG, IATA	
Class	not regulated
· Packing group	
DOT, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.

Not applicable.

not regulated

15 Regulatory information

· UN "Model Regulation":

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

· Section 355 (extremely hazardous substances):

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

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7 xylene

100-41-4 ethylbenzene

67-56-1 methanol

· 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:

100-41-4 ethylbenzene

28553-12-0 diisononyl phthalate

· Chemicals known to cause reproductive toxicity for females:

67-56-1 methanol

· Chemicals known to cause reproductive toxicity for males:

67-56-1 methanol

· Chemicals known to cause developmental toxicity:

67-56-1 methanol

· (DSL) Canada Dosmestic Substance List

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

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· New Jerse	y Right-to-Know List:	
1330-20-7	xylene	
	ethylbenzene	
1333-86-4	Carbon black	
67-56-1	methanol	
· New Jerse	y Special Hazardous Substance List:	
1330-20-7	xylene	F3
100-41-4	ethylbenzene	CA, I
1333-86-4	Carbon black	CA
67-56-1	methanol	TE, I
· Pennsylva	nia Right-to-Know List:	·
1330-20-7	xylene	
100-41-4	ethylbenzene	
· Pennsylva	nia Special Hazardous Substance List:	
1330-20-7	xylene	
100-41-4	ethylbenzene	
· Canceroge	enity categories	
· EPA (Env	ironmental Protection Agency)	
1330-20-7	xylene	
100-41-4	ethylbenzene	
· TLV (Thro	eshold Limit Value established by ACGIH)	
1330-20-7	xylene	
100-41-4	ethylbenzene	I
1333-86-4	Carbon black	1
· MAK (Ger	man Maximum Workplace Concentration)	-
100-41-4	ethylbenzene	:
1333-86-4	Carbon black	
· NIOSH-C	a (National Institute for Occupational Safety and Health)	
THOUSE C	f (- \lambda \lambd	

- · 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: 09/11/2018

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· Abbreviations and acronyms:

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 BEI: Biological Exposure Limit

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

USA