

Page 1/10

Safety Data Sheet acc. to OSHA HCS

Printing Date 09/11/2018

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Revision Number 10

Revision Date 09/11/2018

l Identificati		
· Product ident	fier	
· Trade name:	2176 SolidSeal (White)	
	r: 12176 ified uses of the substance or mixture. Sealant the substance / the mixture Sealant	
• Manufacture Royal Adhesiv 2001 W. Wask South Bend II	es And Sealants, LLC ington Street	
	epartment: Environment protection department.	
ChemTrec: D	ephone number: y or Night within USA and Canada: 1-800-424-9300. nd Canada: +1 703-527-3887 (collect calls accepted)	
2 Hazard(s) i	lentification	
· Classification	of the substance or mixture	
GH	508 Health hazard	
-	H334 May cause allergy or asthma symptoms or breathing d	lifficulties if inhaled.
Carc. 2 STOT RE 2	H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or re	norted announc
GH		решец схрозите.
Skin Sens. 1	H317 May cause an allergic skin reaction.	
· Label elemen · GHS label ele · Hazard pictog	nents The product is classified and labeled according to the	Globally Harmonized System (GHS).
GHS08		
Signal word l Hazard staten	ents	
May cause an	rgy or asthma symptoms or breathing difficulties if inhaled. allergic skin reaction.	
	ausing cancer. nage to organs through prolonged or repeated exposure.	(Contd. on page

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

	(Contd. of page 1)
· 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 regulation	5.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
$\begin{array}{c} \textbf{Health} = 2\\ \textbf{Fire} = 1\\ \textbf{Reactivity} = 0 \end{array}$	
· HMIS-ratings (scale 0 - 4)	
HEALTH2Health = 2FIRE1Fire = 1PHYSICAL HAZARD 0 Physical Hazard = 0	
 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 	
• vPvB: Not applicable.	

· Chemical characterization: Mixtures

· Description: Mixture

· Hazardous components:		
59675-67-1	polyurethane prepolymer	25-50%
13463-67-7	titanium dioxide	2.5-10%
1330-20-7	xylene	2.5-10%
90622-57-4	C9-12-Iso-alkanes	<i>≤</i> 2.5%
100-41-4	ethylbenzene	<i>≤</i> 1%

4 First-aid measures

· Description of first aid measures

• After inhalation:

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Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

(Contd. of page 2)

- 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.
- \cdot 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 p	recautions, protective equipment and emergency procedures	
	ctive equipment. Keep unprotected persons away.	
Ensure ade	quate ventilation	
· Environme	ntal precautions: Do not allow to enter sewers/ surface or ground water.	
Methods an	nd material for containment and cleaning up:	
Pick up me	chanically.	
Dispose of	contaminated material as waste in accordance with federal state and local regulations.	
	quate ventilation.	
Reference	to other sections	
See Section	7 for information on safe handling.	
	e 8 for information on personal protection equipment.	
See Section	a 13 for disposal information.	
Protective .	Action Criteria for Chemicals	
• PAC-1:		
1330-20-7	xylene	130 ppn
100-41-4	ethylbenzene	33 ppm
67-56-1	methanol	530 ppn
PAC-2:		
1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppn
67-56-1	methanol	2,100 ppm
PAC-3:		·
	1	2500* ppn
1330-20-7	xylene	2300 ppn
1330-20-7	<i>xylene</i> <i>ethylbenzene</i>	1800* ppn

(Contd. on page 4)

USA

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

(Contd. of page 3)

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· 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
- · 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.

1346	63-67-7 titanium dioxide	
PEL	L Long-term value: 15* mg/m ³	
	*total dust	
REL	L See Pocket Guide App. A	
TLV	⁷ Long-term value: 10 mg/m ³	
1330	0-20-7 xylene	
PEL	L Long-term value: 435 mg/m ³ , 100 ppm	
REL	L Short-term value: 655 mg/m³, 150 ppm	
	Long-term value: 435 mg/m ³ , 100 ppm	
TLV	V Short-term value: 651 mg/m ³ , 150 ppm	
	Long-term value: 434 mg/m ³ , 100 ppm	
100	BEI	
	-41-4 ethylbenzene	
PEL	L Long-term value: 435 mg/m ³ , 100 ppm	
REL	L Short-term value: 545 mg/m ³ , 125 ppm	
	Long-term value: 435 mg/m ³ , 100 ppm	
TLV	⁷ Long-term value: 87 mg/m ³ , 20 ppm	
	BEI	
		Contd. on page

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

· Ingredients with biological limit values:

0	<u> </u>
1330	0-20-7 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)
· Add	itional information: The lists that were valid during the creation were used as basis.
	osure controls
	onal protective equipment (see listings below)
	eral protective and hygienic measures:
	p away from foodstuffs, beverages and feed.
	h hands before breaks and at the end of work.
	thing equipment:
	approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator
	ufacturer to determine the appropriate type of equipment for a given application. Observe respirator use
	ations specified by the manufacturer.
· Prot	ection of hands:
un	Protective gloves
· Mate	erial of gloves
	selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
varie	es from manufacturer to manufacturer.
· Pene	etration 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 rved.
	the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
Vito	
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- 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: Viscous paste Color: White

(Contd. on page 6)

USA

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

	(Contd. of	page
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined	
Flash point:	Not Determined	
Flammability (solid, gaseous):	Not determined.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammable limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not determined.	
Specific gravity:	1.19	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble	
Partition coefficient (n-octanol/wa	ter): N/D	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
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

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- 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 alcohols. Reacts with amines. Reacts with water
- Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sulfur oxides (SOx)

(Contd. on page 7)

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

Hydrogen chloride (HCl) Hydrocarbons

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

• Primary irritant effect:

• on the skin: May irritate the skin.

 \cdot 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

· IARC (International Agency for Research on Cancer)13463-67-7itianium dioxide2B1330-20-7xylene3100-41-4ethylbenzene2B· NTP (National Toxicology Program)2BNone 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.
- · 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.

(Contd. on page 8)

USA

Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

(Contd. of page 7)

4 Transport information	
· 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.
• 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

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

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.

(Contd. on page 9)

USA

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

Printing Date 09/11/2018

		Contd. of page 8)
· New Jersey	v Right-to-Know List:	
13463-67-7	7 titanium dioxide	
1330-20-7	7 xylene	
100-41-4	4 ethylbenzene	
67-56-1	l methanol	
· New Jersey	y Special Hazardous Substance List:	
1330-20-7	xylene	F3
100-41-4	ethylbenzene	CA, F3
67-56-1	methanol	TE, F3
-	nia Right-to-Know List:	
13463-67-7	7 titanium dioxide	
1330-20-7	7 xylene	
100-41-4	4 ethylbenzene	
· Pennsylvan	nia Special Hazardous Substance List:	
1330-20-7	xylene	E
100-41-4	ethylbenzene	E
· Cancerogen	nity categories	
· EPA (Envir	ronmental Protection Agency)	
1330-20-7	xylene	Ι
100-41-4	ethylbenzene	D
• TLV (Thres	shold Limit Value established by ACGIH)	

13463-67-7 titanium dioxide 1330-20-7 xylene

100-41-4 ethylbenzene

· MAK (German Maximum Workplace Concentration)

13463-67-7 titanium dioxide

100-41-4 ethylbenzene

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

13463-67-7 titanium dioxide

· 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.

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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

· Date of preparation / last revision 09/11/2018/9

(Contd. on page 10)

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Printing Date 09/11/2018

Revision Number 10

Revision Date 09/11/2018

Trade name: 12176 SolidSeal (White)

	(Contd. of page 9
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de International Transport of Dangerous Goods by Rail)	fer (Regulations Concerning the
ICAO: International Civil Aviation Organisation	
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	