

Safety Data Sheet
acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

1 Identification

- **Product identifier**
- **Trade name:** ElastiSeal 5766
- **Article number:** 730952
- **Relevant identified uses of the substance or mixture.** Adhesive/Sealant
- **Application of the substance / the mixture** Sealants, Tapes and Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Royal Adhesives & Sealants, LLC
4401 Page Avenue. P. O. Box 457
Michigan Center, MI 49254
Information Phone Number: 517-764-0334
- **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.



GHS08 Health hazard

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 1)

· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** *Danger*· **Hazard statements***Highly flammable liquid and vapor.**Causes skin irritation.**Causes serious eye irritation.**May cause genetic defects.**May cause cancer.**Suspected of damaging fertility or the unborn child.**May cause drowsiness or dizziness.**May cause damage to organs through prolonged or repeated exposure.*· **Precautionary statements***Obtain special instructions before use.**Do not handle until all safety precautions have been read and understood.**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Ground/bond container and receiving equipment.**Use explosion-proof electrical/ventilating/lighting/equipment.**Use only non-sparking tools.**Take precautionary measures against static discharge.**Do not breathe dust/fume/gas/mist/vapors/spray.**Wash thoroughly after handling.**Use only outdoors or in a well-ventilated area.**Wear protective gloves/protective clothing/eye protection/face protection.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**IF INHALED: Remove person to fresh air and keep comfortable for breathing.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**IF exposed or concerned: Get medical advice/attention.**Call a poison center/doctor if you feel unwell.**Specific treatment (see on this label).**Get medical advice/attention if you feel unwell.**Take off contaminated clothing and wash it before reuse.**If skin irritation occurs: Get medical advice/attention.**If eye irritation persists: Get medical advice/attention.**In case of fire: Use for extinction: CO₂, powder or water spray.**Store in a well-ventilated place. Keep container tightly closed.**Store in a well-ventilated place. Keep cool.**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 = 3

Reactivity = 0

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 2)

· HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
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:

108-88-3	toluene	10-25%
68132-00-3	Hydrogenated Hydrocarbon Resin	2.5-10%
64742-89-8	Solvent naphtha (petroleum), light aliph.(VM&P)	2.5-10%
13463-67-7	titanium dioxide	≤1%
67-56-1	methanol	≤1%
1333-86-4	Carbon black	≤0.1%

· Additional information:

All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Overexposure, remove to fresh air and seek medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **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, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
Water
Water and water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 3)

- **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 product to reach sewage system or any water course.*
- **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.
Do not flush with water or aqueous cleansing agents
- **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:

108-88-3	toluene	67 ppm
112945-52-5	Amorphous Silica	18 mg/m ³
67-56-1	methanol	530 ppm

· PAC-2:

108-88-3	toluene	560 ppm
112945-52-5	Amorphous Silica	100 mg/m ³
67-56-1	methanol	2,100 ppm

· PAC-3:

108-88-3	toluene	3700* ppm
112945-52-5	Amorphous Silica	630 mg/m ³
67-56-1	methanol	7200* ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **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:** *Not required.*
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 4)

· *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.

108-88-3 toluene

<i>PEL</i>	<i>Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift</i>
<i>REL</i>	<i>Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm</i>
<i>TLV</i>	<i>Long-term value: 75 mg/m³, 20 ppm BEI</i>

13463-67-7 titanium dioxide

<i>PEL</i>	<i>Long-term value: 15* mg/m³ *total dust</i>
<i>REL</i>	<i>See Pocket Guide App. A</i>
<i>TLV</i>	<i>Long-term value: 10 mg/m³ withdrawn from NIC</i>

67-56-1 methanol

<i>PEL</i>	<i>Long-term value: 260 mg/m³, 200 ppm</i>
<i>REL</i>	<i>Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin</i>
<i>TLV</i>	<i>Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI</i>

1333-86-4 Carbon black

<i>PEL</i>	<i>Long-term value: 3.5 mg/m³</i>
<i>REL</i>	<i>Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C</i>
<i>TLV</i>	<i>Long-term value: 3* mg/m³ *inhalable fraction</i>

(Contd. on page 6)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 5)

· **Ingredients with biological limit values:**

108-88-3 toluene

BEI	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene
	0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

67-56-1 methanol

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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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.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.

· **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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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. 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.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 6)

- **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:**

Form:	Liquid
Color:	Charcoal Gray
Odor:	Solvent-like
Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point:	Undetermined.
Boiling point:	Undetermined

- **Flash point:** 10 °C (50 °F)

- **Flammability (solid, gaseous):** Flammable.

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Flammable limits:**

Lower:	.9 Vol %
Upper:	7.4 Vol %

- **Vapor pressure:** Not determined.

- **Specific gravity at 20 °C (68 °F):** 1.15 g/cm³ (9.59675 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- **Water:** Not soluble

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

- **Dynamic:** Not determined.

- **Kinematic:** >20.5 cSt

- **Not determined.**

- **Solvent content:**

- **Organic solvents:** 38 %

(Contd. on page 8)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 7)

Solids content: 73 %
Other information VOC = 2.79 lbs/gal

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:** Strong oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **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:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Irritant
 Carcinogenic.
 The product can cause inheritable damage.

- **Carcinogenic categories**

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

108-88-3	toluene	3
9003-55-8	1,3-butadiene-styrene block polymer	3
13463-67-7	titanium dioxide	2B
14808-60-7	non-respirable quartz	1
1333-86-4	Carbon black	2B

- **NTP (National Toxicology Program)**

14808-60-7	non-respirable quartz	K
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

USA

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 8)



12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *Expected to be harmful to aquatic organisms.*
- **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:** *Water hazard class 2 (Self-assessment): hazardous for water*
- **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 not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.*
- **Uncleaned packagings:**
- **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

- | |
|---|
| <ul style="list-style-type: none"> · UN-Number · DOT, IMDG, IATA <i>UN1133</i> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT <i>Adhesives</i> · IMDG, IATA <i>ADHESIVES</i> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · DOT <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class <i>3 Flammable liquids</i> · Label <i>3</i> |
| <ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class <i>3 Flammable liquids</i> · Label <i>3</i> |

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: *ElastiSeal 5766*

(Contd. of page 9)

· Packing group	<i>II</i>
· DOT, IMDG, IATA	<i>II</i>
· Environmental hazards:	<i>Not applicable.</i>
· Special precautions for user	<i>Warning: Flammable liquids</i>
· Danger code (Kemler):	<i>33</i>
· EMS Number:	<i>F-E,S-D</i>
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	<i>Not applicable.</i>
· UN "Model Regulation":	<i>UN1133, Adhesives, 3, II</i>

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):**

108-88-3 toluene

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.

· **TSCA new (21st Century Act) (Substances not listed)**

68132-00-3 Hydrogenated Hydrocarbon Resin

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7 non-respirable quartz

· **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:**

108-88-3 toluene

67-56-1 methanol

· **(DSL) Canada Domestic 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:**

108-88-3 toluene

1317-65-3 Limestone

13463-67-7 titanium dioxide

67-56-1 methanol

1333-86-4 Carbon black

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: **ElastiSeal 5766**

(Contd. of page 10)

· **New Jersey Special Hazardous Substance List:**

108-88-3	toluene	TE, F3
67-56-1	methanol	TE, F3
1333-86-4	Carbon black	CA

· **Pennsylvania Right-to-Know List:**

108-88-3	toluene	
1317-65-3	Limestone	
13463-67-7	titanium dioxide	

· **Pennsylvania Special Hazardous Substance List:**

108-88-3	toluene	E
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· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II
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· **TLV (Threshold Limit Value established by ACGIH)**

108-88-3	toluene	A4
14807-96-6	Talc (3MgO•4SiO2•H2O)	A4
13463-67-7	titanium dioxide	A4
14808-60-7	non-respirable quartz	A2
1333-86-4	Carbon black	A4

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

14807-96-6	Talc (3MgO•4SiO2•H2O)	3B
13463-67-7	titanium dioxide	3A
14808-60-7	non-respirable quartz	I
1333-86-4	Carbon black	3B

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

13463-67-7	titanium dioxide	
14808-60-7	non-respirable quartz	
1333-86-4	Carbon black	

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:** not available

· **Information about limitation of use:** Use by properly trained workers recommended.

· **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 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:** 07/26/2011

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Printing Date 03/27/2018

Revision Number 5

Revision Date 03/27/2018

Trade name: ElastiSeal 5766

(Contd. of page 11)

· Date of preparation / last revision 03/27/2018 / 4**· 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)**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**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**BEI: Biological Exposure Limit**Flam. Liq. 2: Flammable liquids – Category 2**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Muta. 1B: Germ cell mutagenicity – Category 1B**Carc. 1B: Carcinogenicity – Category 1B**Repr. 2: Reproductive toxicity – Category 2**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2*

USA