



Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

1 Identification

· Product identifier

· Trade name: ElastiSeal® 7045

· Article number: 730510

- · 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

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.

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

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).
- · Hazard pictograms







GHS02

GHS07

GHS08

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 1)

- · Signal word Danger
- · Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

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.

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

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 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 or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

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

· HMIS-ratings (scale 0 - 4)



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

USA

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 2)

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture

· Hazardous components:			
108-88-3	toluene	25-50%	
78-93-3	methyl ethyl ketone	2.5-10%	
1333-86-4	Carbon black	≤ 0.5%	
	polymer stabilizer	≤ 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:

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

Call a doctor immediately.

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.
- · 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.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

(Contd. on page 4)

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 3)

Inform respective authorities in case of seepage into water course or sewage system.

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.

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
78-93-3	methyl ethyl ketone	200 ppm
112945-52-5	Amorphous Silica	18 mg/m³
· PAC-2:		
108-88-3	toluene	560 ppm
<i>78-93-3</i>	methyl ethyl ketone	2700* ppm
112945-52-5	Amorphous Silica	$100 \ mg/m^3$
· PAC-3:		
108-88-3	toluene	3700* ppm
78-93-3	methyl ethyl ketone	4000* ppm
112945-52-5	Amorphous Silica	630 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling 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: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

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 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.

(Contd. on page 5)

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

At this time, the remaining constituent has no known exposure limits. 108-88-3 toluene PEL Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift REL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm TLV Long-term value: 75 mg/m³, 20 ppm BEI78-93-3 methyl ethyl ketone PEL Long-term value: 590 mg/m³, 200 ppm REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm TLV Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm BEI1333-86-4 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 · 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)

78-93-3 methyl ethyl ketone

BEI 2 mg/L

Medium: urine Time: end of shift Parameter: MEK

- · 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.

(Contd. on page 6)

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 5)

Wash hands before breaks and at the end of work.

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.

· 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: Black Solvent-like Odor: Not determined. · Odor threshold: · pH-value: Not determined. · Change in condition Undetermined.

Melting point:

Boiling point: 111 °C (231.8 °F) · Flash point: 4-10 °C (39.2-50 °F)

· Flammability (solid, gaseous): Flammable.

· Decomposition temperature: Not determined.

(Contd. on page 7)

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

	(Contd. of p
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:	1.4 Vol %
Upper:	11.5 Vol %
Vapor pressure:	Not determined.
Specific gravity at 20 °C (68 °F):	1.12 g/cm³ (9.3464 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	e r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	>20.5 cSt
Solvent content:	
Organic solvents:	35.8 %
Solids content:	64.2 %
Other information	No further relevant information available.

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: No further relevant information available.
- · 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	5,000 mg/kg (rat)		
Dermal	LD50	12,124 mg/kg (rabbit)		
Inhalative	LC50/4 h	5,320 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.

(Contd. on page 8)

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 7)

· Additional toxicological information:

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

· Carcinogenic categories

· IARC (Inter	national Agency for Research on Cancer)	
108-88-3	toluene	3
1333-86-4	Carbon black	2 <i>B</i>
14808-60-7	non-respirable quartz	1
· NTP (Nation	nal Toxicology Program)	
14808-60-7	non-respirable quartz	K
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the	ngredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: Expected to be harmful to acquatic 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

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · 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.

Must be specially treated adhering to official regulations.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

*	14 Transport information		
	· UN-Number · DOT, IMDG, IATA	UN1133	
	· UN proper shipping name · DOT	Adhesives	

(Contd. on page 9)

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 8) · IMDG, IATA **ADHESIVES** · Transport hazard class(es) $\cdot DOT$ · Class 3 Flammable liquids · Label · IMDG, IATA · Class 3 Flammable liquids · Label · Packing group · DOT, IMDG, IATA IINot applicable. · Environmental hazards: · Special precautions for user Warning: Flammable liquids · Danger code (Kemler): 33 F-E,S-D· EMS Number: · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. UN1133, Adhesives, 3, II · UN ''Model Regulation'':

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

· 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:

14808-60-7 non-respirable quartz

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

(Contd. on page 10)

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 9) · Chemicals known to cause developmental toxicity: 108-88-3 toluene · (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: 108-88-3 toluene 1317-65-3 Limestone 78-93-3 methyl ethyl ketone 1333-86-4 Carbon black · New Jersey Special Hazardous Substance List: 108-88-3 toluene TE, F3 78-93-3 methyl ethyl ketone F3 1333-86-4 Carbon black CA· Pennsylvania Right-to-Know List: 108-88-3 toluene 1317-65-3 Limestone 78-93-3 methyl ethyl ketone · Pennsylvania Special Hazardous Substance List: 108-88-3 toluene E78-93-3 methyl ethyl ketone Е · Cancerogenity categories · EPA (Environmental Protection Agency) 108-88-3 toluene II78-93-3 methyl ethyl ketone Ι · TLV (Threshold Limit Value established by ACGIH) 108-88-3 toluene A414807-96-6 Talc (3MgO•4SiO2•H2O) A41333-86-4 Carbon black *A4* 14808-60-7 non-respirable quartz A2· MAK (German Maximum Workplace Concentration) 14807-96-6 Talc (3MgO•4SiO2•H2O) 3B 1333-86-4 Carbon black 3B 14808-60-7 non-respirable quartz · NIOSH-Ca (National Institute for Occupational Safety and Health) 1333-86-4 Carbon black 14808-60-7 non-respirable quartz

- · National regulations:
- · Additional classification according to Decree on Hazardous Materials: not available
- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Printing Date 03/29/2018 Revision Number 3 Revision Date 03/29/2018

Trade name: ElastiSeal® 7045

(Contd. of page 10)

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: 07/30/2014
- · Date of preparation / last revision 03/29/2018 / 2
- · 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

Skin Sens. 1: Skin sensitisation – Category 1

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