



Safety Data Sheet acc. to OSHA HCS

Printing Date 08/23/2016

Revision Number 2

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1 Identification

- · Product identifier
- · Trade name: 46756 (Hardman Epoweld 16756 Part A)
- *Article number: 46756
- * Relevant identified uses of the substance or mixture. Adhesive
- * Application of the substance / the mixture Adhesive
- 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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

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



GHS07

- Signal word Warning
- Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

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Use only outdoors or in a well-ventilated area.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see on this label).

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

Wash contaminated clothing before reuse.

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

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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

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



Health = 2 Fire = 1

Reactivity = 0

HMIS-ratings (scale 0 - 4)

HEALTH 2
FIRE 1

Health = 2Fire = 1

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:		
25068-38-6	Bisphenol A Epoxy Resin	50-100%
471-34-1	calcium carbonate	25-50%
3101-60-8	Glycidyl Ether	2.5-10%
14808-60-7	Quartz (SiO2)	≤0.1%
1333-86-4	Carbon black	≤0.09%

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.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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If skin becomes irritated seek medical attention.

· After eye contact:

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

· After swallowing:

Rinse mouth with water.

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.

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:

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

Open and handle receptacle with care.

Prevent formation of aerosols.

- Information about protection against explosions and fires: No special measures required.
- · 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: Store in cool, dry conditions in well sealed receptacles.

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* Specific end use(s) No further relevant information available.

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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:

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.

471-34-1 calcium carbonate

PEL Long-term value: 15* 5** mg/m³ *total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³ *total dust **respirable fraction

TLV TLV withdrawn

14808-60-7 Quartz (SiO2)

PEL see Quartz listing

REL Long-term value: 0.05* mg/m³

*respirable dust; See Pocket Guide App. A

TLV Long-term value: 0.025* mg/m³

*as respirable fraction

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

- · 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.

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.

· Material of gloves Nitrile rubber, NBR

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Chloroprene rubber, CR

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.

· 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: Color: Liquid Black

Odor:

Characteristic

· Change in condition

Melting point:

Undetermined.

· Flash point:

> 149 °C (> 300 °F)

· Auto igniting:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

· Specific gravity at 20 °C (68 °F): 1.37 g/cm³ (11.433 lbs/gal)

· Solubility in / Miscibility with

Water:

Not miscible or difficult to mix.

Viscosity:

Dynamic:

Not determined. Not determined.

Kinematic:

Solvent content:

Organic solvents:

0.0 %

Solids content:

not available

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 further information is available.
- · Conditions to avoid Avoid high temperatures. Avoid freezing.
- · Incompatible materials: Reacts with oxidizing agents.

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· Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Aldehydes, acids.

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11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: Skin irritant.
- on the eye: Causes serious eye irritation.
- *Sensitization: Skin Contact Sensitization possible through skin contact.
- Additional toxicological information:

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

Carcinogenic categories

IARC (Inter	rnational Agency for Research on Cancer)	
14808-60-7	Quartz (SiO2)	1
1333-86-4	Carbon black	2B
NTP (Nation	nal Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
· 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.
- Ecotoxical effects:
- Remark: Toxic for 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.

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UN-Number		
DOT	not regulated	
IMDG, IATA	UN3082	
UN proper shipping name		
DOT	not regulated	
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
×	N.O.S., MARINE POLLUTANT	
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
Transport hazard class(es)		
DOT		
Class	not regulated	
IMDG, IATA		
1		
Class Label	9 Miscellaneous dangerous substances and articles 9	
Packing group		
DOT	not regulated	
IMDG, IATA	III	
Environmental hazards:		
Marine pollutant:	Symbol (fish and tree)	
Special marking (ADR):	Symbol (fish and tree)	
Special marking (IATA):	Symbol (fish and tree)	
Special precautions for user	Warning: Miscellaneous dangerous substances and articles	
EMS Number:	F- A , S - F	
Stowage Category	A	
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.	
arasporazianmonut injuniumon.	Epoxy Resin - This product is not considered to be DOT hazardous	
	when transported via any mode within the United States. However,	
	this product is transported to or within the European Community is	
	is considered to be an Environmentally Hazardous Substance,	
	Liquid Epoxy Resin, UN3082, Class 9.	
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES,	

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Safety, health and environmental regulations/legislation specific for the substance or some	mixture
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
All components of this product are on the TSCA Inventory or are exempt from TSCA Inv	entory requirements.
Proposition 65	. , . ,
Chemicals known to cause cancer:	
None of the ingredients is listed.	
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.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
(DSL) Canada Dosmestic Substance List All components of this product are on the DSL(Canada Domestic Substance list) or are erequirements.	exempt from DSL
New Jersey Right-to-Know List:	
14808-60-7 Quartz (SiO2)	
1333-86-4 Carbon black	
New Jersey Special Hazardous Substance List:	
14808-60-7 Quartz (SiO2)	CA
1333-86-4 Carbon black	CA
Pennsylvania Right-to-Know List:	
14808-60-7 Quartz (SiO2)	
Pennsylvania Special Hazardous Substance List:	
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
14808-60-7 Quartz (SiO2)	A2
1333-86-4 Carbon black	A4
MAK (German Maximum Workplace Concentration)	
14808-60-7 Quartz (SiO2)	1
1333-86-4 Carbon black	3B
1333 OU / Carbon black	
NIOSH-Ca (National Institute for Occupational Safety and Health)	

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1333-86-4 Carbon black

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- National regulations:
- 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: 08/23/2016
- Date of preparation / last revision 08/23/2016 / 1
- · 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

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)

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

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3