

# chemical-concepts.com 800.220.1966

# Safety Data Sheet acc. to OSHA HCS

Printing Date 12/07/2016 Revision Number 2 Revision Date 12/07/2016

### 1 Identification

- · Product identifier
- · Trade name: Torque 145 Anaerobic Adhesive
- · Relevant identified uses of the substance or mixture. Adhesive
- · Application of the substance / the mixture Adhesives
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Adhesive Systems, Inc.

A Division of Royal Adhesives & Sealants, LLC

9411 Corsair Road Frankfort, Illinois 60423 Phone Number: 800-552-0299

- · 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

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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





GHS07

GHS08

- · Signal word Danger
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing genetic defects.

Suspected of causing cancer.

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Causes damage to organs through prolonged or repeated exposure.

· Precautionary statements

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

Wear protective gloves.

Wear eye protection / face protection.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

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

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 exposed or concerned: Get medical advice/attention.* 

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it 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 = 1 Reactivity = 1

· HMIS-ratings (scale 0 - 4)



- · 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 d	· Hazardous components:			
80-15-9	lpha,lpha -dimethylbenzyl hydroperoxide	≤2.5%		
13463-67-7	titanium dioxide	≤1.0%		
98-82-8	cumene	≤0.5%		

### 4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for 20 minutes under running water. Call a Doctor immediately.
- · 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.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · 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.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: Keep container closed when not in use.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store below 100F
- · 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.

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Protect from contamination.

· 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	ı limit values t	hat require moi	nitoring at th	ie workplace:
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# 80-15-9 a,a -dimethylbenzyl hydroperoxide

WEEL Long-term value: 6 mg/m³, 1 ppm Skin

#### 13463-67-7 titanium dioxide

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

#### 98-82-8 cumene

	Long-term value: 245 mg/m³, 50 ppm Skin
REL	Long-term value: 245 mg/m³, 50 ppm Skin

TLV Long-term value: 246 mg/m³, 50 ppm

- · 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 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.

· Material of gloves

Rubber gloves

Butyl rubber, BR

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.

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· 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

Use full face shield over protective eye wear when there is a risk of a splash.

· Body protection: Protective work clothing

## 9 Physical and chemical properties

· Information of	n basic	physical	and cl	hemical	properties
2.0,0		Picjacott			p. op c. mes

· General Information

· Appearance:

Form: Liquid Color: Blue

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point:Undetermined.Boiling point:Undetermined

• Flash point: >93 °C (>199 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

**Decomposition temperature:** Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Flammable limits:

Lower:Not determinedUpper:Not determined

· Vapor pressure: Not determined.

• Specific gravity at 20 °C (68 °F):  $1.1 \text{ g/cm}^3$  (9.18 lbs/gal)

Relative density
 Vapor density
 Evaporation rate
 Not determined.
 Not determined

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

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

· Viscosity:

**Dynamic:** Not determined.

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		(Contd. of page 5)
Kinematic:	Not determined.	
· Solvent content: Organic solvents:	0.0 %	
Solids content: · Other information	Not available 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

Heat, flames, sparks.

Avoid temperatures above 100F (38C).

· Incompatible materials:

Reacts with oxidizing agents.

Copper and copper alloys.

Reacts with bases.

Reacts with peroxides

· Hazardous decomposition products:

Carbon monoxide

Carbon dioxide

Nitrogen oxides

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 1	· LD/LC50 values that are relevant for classification:			
80-15-9 a,	80-15-9 α,α -dimethylbenzyl hydroperoxide			
Oral	LD50	382 mg/kg (rat)		
Dermal	LD50	500 mg/kg (rat)		
Inhalative	LC50/4 h	220 mg/l (rat)		

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye:

Irritating effect.

Vapors may be irritating to the eyes.

- · 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: Harmful

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

13463-67-7 titanium dioxide

2*B* 

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98-82-8 cumene

NTP (National Toxicology Program)

98-82-8 cumene

R

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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# 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: Harmful to 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.

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# 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.

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.	

- IISA

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· Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	<b>II of</b> Not applicable.
· Transport/Additional information:	Limited Quantities are allowed. Refer to 49 CFR for conditions that apply.
· UN ''Model Regulation'':	not regulated

# 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):
  - 80-15-9 α,α -dimethylbenzyl hydroperoxide
- 98-82-8 cumene
- 98-86-2 acetophenone
- · 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:

98-82-8 cumene

· 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 exempt from DSL requirements.

· New Jersey	Right-to-Know List:	
80-15-9	lpha, lpha -dimethylbenzyl hydroperoxide	
13463-67-7	titanium dioxide	
98-82-8	cumene	
98-86-2	acetophenone	
· New Jersey	Special Hazardous Substance List:	
80-15-9 α,o	a-dimethylbenzyl hydroperoxide	F2, R4
98-82-8 сиг	nene	F3, R1
· Pennsylvani	ia Right-to-Know List:	
80-15-9	lpha,lpha -dimethylbenzyl hydroperoxide	
13463-67-7	titanium dioxide	
98-82-8	cumene	
	(0 - 1	

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98-80	6-2 acetophenone	
Pennsylv	vania Special Hazardous Substance List:	
80-15-9	lpha, lpha -dimethylbenzyl hydroperoxide	
98-82-8	cumene	
98-86-2	acetophenone	
Cancero	genity categories	
EPA (En	wironmental Protection Agency)	
98-82-8	cumene	D, CB
98-86-2	acetophenone	D
TLV (Th	reshold Limit Value established by ACGIH)	
13463-67	7-7 titanium dioxide	A
MAK (G	erman Maximum Workplace Concentration)	
13463-67	7-7 titanium dioxide	3.
NIOSH-	Ca (National Institute for Occupational Safety and Health)	
13463-67	7-7 titanium dioxide	
National	regulations:	
	nzard class: Water hazard class 1 (Self-assessment): slightly hazardous Il safety assessment: A Chemical Safety Assessment has not been carrie	

# 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: 12/07/2016
- · Date of preparation / last revision 12/07/2016 / 1
- · 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

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

Muta. 2: Germ cell mutagenicity – Category 2

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Carc. 2: Carcinogenicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1