ASI[™] TORQUE 181

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SECTION 1. PRODUCT AND COM	
Product name	: ASI™ TORQUE 181
Product code	: 10000009844
Manufacturer or supplier's c	letails
Company	: H.B. Fuller Engineering Adhesives
Medical Emergency Phone Nu	umber (24 Hours): 1-888-853-1758
0,	, , , , , , , , , , , , , , , , , , ,
Transport Emergency Phone I	Number (CHEMTREC): 1-800-424-9300
Recommended use of the cl	hemical and restrictions on use
Recommended use	: Anaerobic Cure Adhesive

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	liquid
Color	green
Odor	characteristic

GHS Classification

Skin irritation Eye irritation Skin sensitization Specific target organ toxicity - repeated exposure	 Category 2 Category 2A Category 1 Category 2
GHS label elements	
Hazard pictograms	
Signal Word	: Warning

Hazard Statements:

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure.

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Precautionary Statements:

Prevention: P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection.

Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/ attention if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse. **Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects

Carcinogenicity:

IARC	Group 2B: Possibly carcinogenic to humans cumene 98-82-8			
	N,N-dimethyl-p-toluidine	99-97-8		
OSHA NTP	No component of this product present at levels greater than equal to 0.1% is on OSHA's list of regulated carcinogens. Reasonably anticipated to be a human carcinogen			
	cumene	98-82-8		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration [%]
methacrylic acid, monoester with propane-1,2-diol	27813-02-1	30 - 50
α,α-dimethylbenzyl hydroperoxide	80-15-9	1 - 5
Poly(oxy-1,2-ethanediyl), .alpha(2-methyl-1-oxo- 2-propenyl)omega[(2-methyl-1-oxo-2- propenyl)oxy]-	25852-47-5	1 - 5
maleic acid	110-16-7	0.1 - 1
cumene	98-82-8	0.1 - 1
2'-phenylacetohydrazide	114-83-0	0.1 - 1
N,N-dimethyl-p-toluidine	99-97-8	0.1 - 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	: Show this material safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. Keep patient warm and at rest.

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	Consult a physician after significant exposure.				
In case of skin contact	: Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists.				
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids. Seek medical advice.				
If swallowed	 If swallowed, call a poison control center or doctor immediately. Do not induce vomiting without medical advice. 				

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	: Water spray jet
Hazardous combustion products Specific extinguishing methods	: Nitrogen oxides (NOx) Sulfur oxides :
Further information	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	: Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.
Environmental precautions	:	Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Ventilate the area. Soak up with inert absorbent material. Shovel or sweep up.

SECTION 7. HANDLING AND STORAGE

Local/Total ventilation	ι	Use only with adequate ventilation.
Advice on safe handling	١	Wear personal protective equipment.

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Conditions for safe storage	Do not get on skin or clothing. Keep away from heat and flame. Keep containers tightly closed in a dry, cool and well- ventilated place. Store in original container.
Materials to avoid	: Do not store together with oxidizing and self-igniting products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
cumene	98-82-8	TWA	50 ppm	ACGIH
		TWA	50 ppm 245 mg/m3	NIOSH REL
		TWA	50 ppm 245 mg/m3	OSHA Z-1
		TWA	50 ppm 245 mg/m3	OSHA P0
		PEL	50 ppm 245 mg/m3	CAL PEL

Personal protective equipm	nt	
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrate that exposures are within recommended exposure guidelines	
Filter type	: Combined particulates and organic vapor type	
Hand protection		
Material	: Neoprene gloves	
	Nitrile rubber	
	butyl-rubber	
Eye protection	: Tightly fitting safety goggles Ensure that eyewash stations and safety showers are close the workstation location.	to
Skin and body protection	: Long sleeved clothing Preventive skin protection	
Protective measures	: Avoid contact with skin.	

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Hygiene measures	: Avoid contact with skin, eyes and clothing.
SECTION 9. PHYSICAL AND CH	EMICAL PROPERTIES
Appearance Color Odor Odor Threshold	: liquid : green : characteristic : No data available
Melting point/freezing point	: is not determined
Boiling point/boiling range	: is not determined
Evaporation rate Flammability (solid, gas)	is not determinedNot classified as a flammability hazard
Upper explosion limit	: Upper flammability limit is not determined
Lower explosion limit	: Lower flammability limit is not determined
Density Solubility(ies)	: 1.06 g/cm3
Water solubility	: is not determined
Partition coefficient: n- octanol/water	: No data available
Autoignition temperature	: is not determined
Viscosity	
Minanalti, Islanatia	. is not determined

SECTION 10. STABILITY AND REACTIVITY

Viscosity, kinematic

Chemical stability	: The product is chemically stable.
Hazardous decomposition products	: Nitrogen oxides (NOx) Sulfur oxides

: is not determined

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Acute toxicity estimate : > 5,000 mg/kg
		Method: Calculation method

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Acute inhalation toxicity	: Acute toxicity estimate : 67.81 mg/l
	Exposure time: 4 h Test atmosphere: vapor
	Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg
	Method: Calculation method
Components:	
α, α -dimethylbenzyl hydrope	
Acute oral toxicity	: LD50 Oral Rat: 382 mg/kg
Acute inhalation toxicity	: LC50 Rat: 220 ppm
	Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	: LD50 Dermal Rat: 500 mg/kg
maleic acid:	
Acute oral toxicity	: LD50 Oral Rat: 708 mg/kg
Acute dermal toxicity	: LD50 Dermal Rabbit: 1,560 mg/kg
cumene: Acute oral toxicity	: LD50 Oral Rat: 1,400 mg/kg
Skin corrosion/irritation	
No data available	
Serious eye damage/eye irritation	n
No data available	
Respiratory or skin sensitization	
No data available	
Germ cell mutagenicity	
No data available	
Carcinogenicity	
No data available	
Reproductive toxicity	
No data available	
STOT-single exposure	
No data available	

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STOT-repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

<u>Components:</u> methacrylic acid, monoester with propane-1,2-diol :				
Toxicity to fish	:	LC50 (Fish): 493 mg/l Exposure time: 48 h Test Method: static test		
α,α-dimethylbenzyl hydrope	rox	ide :		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 3.9 mg/l Exposure time: 96 h Test Method: static test		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 7 mg/l Exposure time: 24 h Test Method: static test		
maleic acid :				
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 5 mg/l Exposure time: 96 h Test Method: static test		
cumene :				
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2.7 mg/l Exposure time: 96 h Test Method: semi-static test		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.6 mg/l Exposure time: 48 h Test Method: static test		
Toxicity to algae	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 2.6 mg/l Exposure time: 72 h Test Type: flow-through test		
N,N-dimethyl-p-toluidine :				
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 42 - 50.5 mg/l Exposure time: 96 h Test Method: flow-through test		

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Persistence and degradability

No data available Bioaccumulative potential

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	 Do not dispose of together with household waste. Do not dispose of waste into sewer.
	To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous
	Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

SECTION 14. TRANSPORT INFORMATION

Special precautions for user

Not applicable

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards :	Respiratory or skin sensitization Specific target organ toxicity (single or repeated e Skin corrosion or irritation Serious eye damage or eye irritation	∍xposure)
SARA 302 :	This material does not contain any components with a EHS TPQ.	section 302
SARA 313 :	: The following components are subject to reporting levels establish by SARA Title III, Section 313:	
	α,α-dimethylbenzyl hydroperoxide cumene	80-15-9 98-82-8

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

cumene 98-82-8 This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

US State Regulations

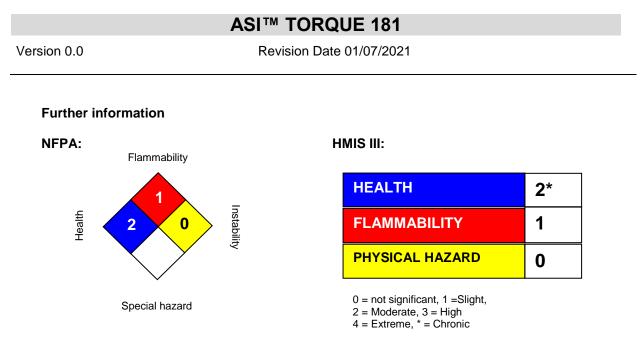
California Prop 65 Please contact Supplier for more information.

The ingredients of this product are reported in the following inventories:

TSCAAll substances listed as active on the TSCA inventoryDSLAll components of this product are on the Canadian DSLInventories LegendTSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC(New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV(Taiwan)

SECTION 16. OTHER INFORMATION

Prepared by: Global Regulatory Department - phone: 1-651-236-5842 - email: msds.request@hbfuller.com



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