QUANTUM®

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 09/14/2020 Version: 1.0

SECTION 1: Identifica	tion	
1.1. Identification		
Product form		: Mixture
Product name		: QUANTUM 45-HB EPOXY HIGH BUILD ACTIVATOR
Product code		: 45-AHB-100
1.2. Recommended us	se and restrictions or	
Recommended use		: Industrial use
Restrictions on use		: The product is intended for professional use
1.3. Supplier		
Engineered Marine Coating 2134 Cainhoy Rd Huger, SC 29450- United S T 855-544-3648 ask@quantumpaint.com - v	itates	<u>n</u>
1.4. Emergency teleph	none number	
Emergency number		: 800-255-3924 Chemtel
SECTION 2: Hazard(s	identification	
	he substance or mix	ture
GHS US classification		ture
Flammable liquids	H224	Extremely flammable liquid and vapor
Category 1	11224	
Skin sensitization,	H317	May cause an allergic skin reaction
Category 1	LI240	May aqueo gapatia defeata
Germ cell mutagenicity Category 1B	H340	May cause genetic defects
Carcinogenicity Category	H350	May cause cancer
1A Specific target organ	H373	May assue domage to argone through prelenged or repeated evidence
toxicity (repeated	H373	May cause damage to organs through prolonged or repeated exposure
exposure) Category 2 Full text of H statements : se	a appetion 16	
Full lext of H Statements . Se	e section to	
2.2. GHS Label eleme	nts, including precau	itionary statements
GHS US labeling		
Hazard pictograms (GHS U	S)	
Signal word (GHS US)		: Danger
Hazard statements (GHS U	S)	 H224 - Extremely flammable liquid and vapor H317 - May cause an allergic skin reaction H340 - May cause genetic defects H350 - May cause cancer H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US)

- : P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/Bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing must not be allowed out of the workplace.

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P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Talc (Magnesium Silicate)	(CAS-No.) 14807-96-6	8.928 – 17.856	Carc. 2, H351
Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped	(CAS-No.) 25036-25-3	13.213 – 13.571	Skin Sens. 1, H317
XYLENE	(CAS-No.) 1330-20-7	8.91 – 9.672	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
bisphenol-A-(epichlorhydrin) epoxy resin	(CAS-No.) 25068-38-6	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
ethylbenzene	(CAS-No.) 100-41-4	1.768 – 3.13	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304
Titanium Dioxide	(CAS-No.) 13463-67-7	2.678 – 2.976	Carc. 2, H351
MICROCRYSTALLINE SILICA	(CAS-No.) 14808-60-7	0.446 - 2.866	Carc. 1A, H350 STOT RE 2, H373
AROMATIC 100	(CAS-No.) 64742-95-6	0.262 – 0.274	Flam. Liq. 2, H225 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and eff	fects (acute and delayed)	
Symptoms/effects after skin contact	: May cause an allergic skin reaction.	
4.3. Immediate medical attention and	special treatment, if necessary	

Treat symptomatically.

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SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the c	hemical	
Fire hazard	: Extremely flammable liquid and vapor.	
5.3. Special protective equipment and p	precautions for fire-fighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release mea		
6.1. Personal precautions, protective ed	quipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.	
6.3. Methods and material for containm	ient and cleaning up	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
For further information refer to section 13.		
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.	
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
7.2. Conditions for safe storage, includ	ing any incompatibilities	
Technical measures	: Ground/bond container and receiving equipment.	
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.	
SECTION 8: Exposure controls/pers		
8.1. Control parameters		

AROMATIC 100 (64742-95-6)		
Not applicable		
XYLENE (1330-20-7)		
ACGIH	Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm

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XYLENE (1330-20-7)		
ACGIH	Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
ethylbenzene (100-41-	4)	
ACGIH	Local name	Ethylbenzene
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: URT irr; kidney dam (nephropathy); cochlear impair. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
MICROCRYSTALLINE	SILICA (14808-60-7)	
ACGIH	Local name	Silica crystaline - quartz
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m ³ (Respirable fraction)
ACGIH	Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2019
Talc (Magnesium Silic	ate) (14807-96-6)	
ACGIH	Local name	Talc
ACGIH	ACGIH TWA (mg/m³)	2 mg/m ³ (Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica) 0.1 fibers/cm ³ (Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination)
ACGIH	ACGIH TWA (ppm)	0.1 fibers/cm ³ (Containing asbestos fibers. F - Respirable fibers)
ACGIH	Remark (ACGIH)	Containing no asbestos fibers = TLV® Basis: Pulm fibrosis; pulm func. Notations: A4 Containing asbestos fibers = TLV® Basis: Pneumoconiosis; lung cancer; mesothelioma. Notations: A1 (Confirmed Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (ppm)	20 mppcf
OSHA	Remark (OSHA)	Table Z-3. CAS No. source: eCFR Table Z-1.
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts
Titanium Dioxide (134	63-67-7)	
ACGIH	Local name	Titanium dioxide
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m³
ACGIH	Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH	Regulatory reference	ACGIH 2019
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped (25036-25-3)
Not applicable
bisphenol-A-(epichlorhydrin) epoxy resin (25068-38-6)
Not applicable

8.2. Appropriate engineering controls

Appropriate engineering controls Environmental exposure controls : Ensure good ventilation of the work station.: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
0.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Mixture contains one or more component(s) which have the following colour(s): Colourless White Colourless to light yellow Colourless to white White to yellow Yellow White to light grey White to dark grey Pure substance: white Unpurified: coloured	
Odor	: characteristic	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: 70 °F Based on data available for ingredients	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 16.86 lb/gal	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	

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Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
VOC content	: 2.3 lb/gal Based on data available for ingredients
SECTION 10: Stability and reacti	vity
10.1. Reactivity	
Extremely flammable liquid and vapor.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	
No dangerous reactions known under norm	
-	
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No fla	ames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition proc	lucts
	e, hazardous decomposition products should not be produced.
SECTION 11: Toxicological infor	mation
11.1. Information on toxicological eff	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
XYLENE (1330-20-7)	
LD50 oral rat	> 3608 mg/kg (Rat, Oral)
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	15432 mg/kg body weight (24 h, Rabbit, Male, Experimental value, Dermal)
LC50 Inhalation - Rat	17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours))
ATE US (oral)	3500 mg/kg body weight
ATE US (dermal)	15432 mg/kg body weight
ATE US (gases) ATE US (vapors)	4500 ppmV/4h 17.8 mg/l/4h
ATE US (vapors)	1.5 mg/l/4h
Titanium Dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
Poly(Bisphenol A-co-epichlorohydrin)), glycidyl end-capped (25036-25-3)
LD50 oral rat	11400 mg/kg (Rat, Oral)
ATE US (oral)	11400 mg/kg body weight
bisphenol-A-(epichlorhydrin) epoxy re	əsin (25068-38-6)
LD50 oral rat	> 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female,
	Experimental value, Oral, 14 day(s))

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bisphenol-A-(epichlorhydrin) epoxy resi	
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects.
Carcinogenicity	: May cause cancer.
XYLENE (1330-20-7)	
IARC group	3 - Not classifiable
ethylbenzene (100-41-4) IARC group	2B - Possibly carcinogenic to humans
MICROCRYSTALLINE SILICA (14808-60-	
IARC group	1 - Carcinogenic to humans
Talc (Magnesium Silicate) (14807-96-6)	
IARC group	3 - Not classifiable, 2B - Possibly carcinogenic to humans
Titanium Dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposu	ire : Not classified
Specific target organ toxicity – repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
ethylbenzene (100-41-4)	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
MICROCRYSTALLINE SILICA (14808-60-	-7)
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
/iscosity, kinematic	: No data available
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
ECTION 12: Ecological information of ecotoxicological studies have been conduct	
ECTION 13: Disposal consideration	
3.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Flammable vapors may accumulate in the container.
ECTION 14: Transport informatio	n
Department of Transportation (DOT) n accordance with DOT	
	· IN1263 Daint 3 II
Transport document description	: UN1263 Paint, 3, II
JN-No.(DOT)	: UN1263
Proper Shipping Name (DOT)	: Paint
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
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Hazard labels (DOT)

: 3 - Flammable liquid



ECTION 15: Regulatory information			
5.1. US Federal regulations			
AROMATIC 100 (64742-95-6)			
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory		
XYLENE (1330-20-7)			
Listed on the United States TSCA (Toxic Substan Subject to reporting requirements of United States Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	100 lb		
ethylbenzene (100-41-4)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)			
CERCLA RQ	1000 lb		
MICROCRYSTALLINE SILICA (14808-60-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Talc (Magnesium Silicate) (14807-96-6)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
Titanium Dioxide (13463-67-7)			
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory		
Poly(Bisphenol A-co-epichlorohydrin), glycidy	Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped (25036-25-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).		
bisphenol-A-(epichlorhydrin) epoxy resin (25068-38-6)			
Listed on the United States TSCA (Toxic Substan	ces Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).		

15.2. International regulations

CANADA

AROMATIC 100 (64742-95-6)
Listed on the Canadian DSL (Domestic Substances List)
XYLENE (1330-20-7)
Listed on the Canadian DSL (Domestic Substances List)
ethylbenzene (100-41-4)
Listed on the Canadian DSL (Domestic Substances List)
MICROCRYSTALLINE SILICA (14808-60-7)
Listed on the Canadian DSL (Domestic Substances List)
Talc (Magnesium Silicate) (14807-96-6)
Listed on the Canadian DSL (Domestic Substances List)
Titanium Dioxide (13463-67-7)
Listed on the Canadian DSL (Domestic Substances List)
Poly(Bisphenol A-co-epichlorohydrin), glycidyl end-capped (25036-25-3)
Listed on the Canadian DSL (Domestic Substances List)

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bisphen	nol-A-(epichlorhydrin) epoxy resin (25068-38-6)
Listed or	on the Canadian DSL (Domestic Substances List)

EU-Regulations No additional information available

National regulations

ethylbenzene (100-41-4)		
Listed on IARC (International Agency for Research on Cancer)		
MICROCRYSTALLINE SILICA (14808-60-7)		
Listed on IARC (International Agency for Research on Cancer)		
Titanium Dioxide (13463-67-7)		
Listed on IARC (International Agency for Research on Cancer)		

15.3. US State regulations

This product can expose you to ethylbenzene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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Full text of H-phrases:

H224	Extremely flammable liquid and vapor	
H225	Highly flammable liquid and vapor	
H226	Flammable liquid and vapor	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H340	May cause genetic defects	
H350	May cause cancer	
H351	Suspected of causing cancer	
H373	May cause damage to organs through prolonged or repeated exposure	

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.