

Safety Data Sheet

ACTECH Vapor Epoxy Slurry Part A

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SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

AC•Tech 2170 FC, Part A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Chemical product for construction and industry

1.3 Details of the supplier of the safety data sheet

Manufacturer:	Allied Construction Technologies, Inc. 3302 Croft Street Norfolk, VA 23513	Phone:(757)-855-5100 Email: Team@actechperforms.com
Emergency Phone:	US & Canada Infotrac: (800) 535-5053 (Contract #104212)	International Infotrac: 1-352-323-3500

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-A-(epichlorhydrin)

epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-F-(epichlorhydrin)

1,6-bis(2,3-epoxypropoxy)hexane

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Signal word: Warning

Pictograms:

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Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.

Special labeling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

NFPA and HMIS Rating

NFPA Rating	Health: 2	Fire: 1	Reactivity: 0
HMIS Rating	Health: 2	Flammability: 1	Physical Hazard: 0

SECTION 3: Composition/Information on Ingredients

3.1 Mixtures

Hazardous Components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
500-033-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	50 - < 75 %
25068-38-6	Xi - Irritant, N - Dangerous for the environment R36/38-43-51-53 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
01-2119456619-26		
500-006-8	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)	10 - < 25 %
9003-36-5	Xi - Irritant, N - Dangerous for the environment R38-43-51-53 Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411	
01-2119454392-40		
240-260-4	1,6-bis(2,3-epoxypropoxy)hexane	5 - < 10 %
16096-31-4	Xi - Irritant R36/38-43-52-53 Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412	
01-2119463471-41		
271-846-8	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	5 - < 10 %
68609-97-2	Xi - Irritant R38-43 Skin Irrit. 2, Skin Sens. 1; H315 H317	
01-2119485289-22		

For Full text R-,H- and EUH-phrases: see section 16.

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SECTION 4: First Aid Measures

4.1 Description of first aid measures

General Information

Change contaminated clothing. If you feel unwell due to accidental exposure, seek medical attention immediately.
(show MSDS if possible)

After inhalation

Move to fresh air and keep warm and rest.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious) . Sip water. Do not induce vomiting.
Immediately get medical attention.

4.2. Symptoms and effects, both acute and delayed

Allergic reactions. Treat symptomatically.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

- alcohol resistant foam.
- Water spray.
- Carbon dioxide (CO₂).
- dry extinguishing powder.

Unsuitable extinguishing media

- High power water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

- Carbon monoxide
- Carbon dioxide
- Nitrogen oxides (NO_x).

5.3 Advise for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. See protective measures under point 7 and 8. Provide adequate ventilation.

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6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Cover drains. Clean contaminated objects and areas thoroughly observing environmental regulations. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Remove mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

Personal protection equipment refer to chapter 8.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Wear protective clothing. Close container tightly once it is no longer in use. Store away from direct sunlight, heat, spark, fire and other sources of ignition. Empty containers may still contain mixed or unmixed materials, which may be hazardous.

7.2 Storage

Keep in closed, original container. Store container in a cool, dry and ventilated area. Protect from direct sunlight an heat or heating elements. Do not store near spark, fire and other sources of ignition. Keep away from food, beverages and animal feed. Keep away from oxidizing agents. Protect from frost, humidity and heat.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane			
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Worker DNEL, long-term	dermal	systemic	3,9 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	13,8 mg/m ³	

PNEC values

CAS No	Substance	
Environmental compartment	Value	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	
Freshwater	0,0072 mg/l	
Marine water	0,00072 mg/l	
Freshwater sediment	66,77 mg/kg	
Marine sediment	6,677 mg/kg	
Soil	80,12 mg/kg	

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Additional advice on limit values

To date, no national critical limit values exist.

8.2 Exposure controls

Skin Protection

Use protective clothing to prevent skin contact. Wear nitrile or butyl rubber gloves. Ensure the chemical resistance of the gloves is suitable for use with these chemicals.

Eye Protection

Wear tight-fitting, protective goggles or face shield.

Respiratory Protection

When applying material in confined spaces, use appropriate NIOSH mask. When applying in vented spaces, respiratory protection is not required unless there are sensitivities to chemicals listed in MSDS.

Body Protection

For protection against direct skin contact, ensure protective clothing covers all exposed skin areas.

General Protection & Hygiene

Avoid contact with skin, eyes and clothing. In case of skin sensitivity, protect skin with protective skin cream. Remove contaminated clothing immediately. Do not eat, drink or smoke in or around application area. Wash hands before taking breaks and at the end of application.

Environmental Exposure Controls

Do not allow to enter into water or drains. If entry into waterways, soils or drains occurs, inform authorities.

SECTION 9: Physical and Chemical Properties

Physical State: Liquid

Color: Transparent

Odor: Low

PH-Value: No Data Available

Changes in physical state

Melting point: No Data Available

Initial Boiling point and boiling range: No Data Available

Sublimation point: No Data Available

Softening point: No Data Available

Pour Point: No Data Available

Flash point: > 203 °F

Flammability

Solid: No Data Available

Gas: No Data Available

Lower explosion limits: No Data Available

Upper explosion limits: No Data Available

Ignition temperature: No Data Available

Auto-ignition temperature

Solid: No Data Available

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Gas	No Data Available
Decompression Temperature	No Data Available
Vapor Pressure	No Data Available
Density at 73 °F	~1.1 g/cm ³
Partition coefficient:	No Data Available
Viscosity/Dynamic (at 73 °F)	~850 CPS
Viscosity/Kinematic	No Data Available
Flow Time	No Data Available
Vapor Density	No Data Available
Evaporation Rate	No Data Available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No dangerous reactions by handling and stock-keeping according to the guidelines.

10.2 Chemical Stability

No decomposition if used according to guidelines.

10.3 Possibility of hazardous reactions

Reacts with:

- Amines
- Acid
- Alkalis

10.4 Conditions to avoid

No Data Available

10.5 Incompatible materials

No Data Available

10.6 Hazardous decomposition products

Gas/Vapors, irritant

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane				
	oral	LD50 mg/kg	15000	Rat	
	dermal	LD50 mg/kg	23000	Rabbit	
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane				
	oral	LD50 mg/kg	> 5000	Rat	
	dermal	LD50 mg/kg	> 2000	Rat	
933999-84-9	reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)				
	oral	LD50 mg/kg	2190	Rat	
	dermal	LD50 mg/kg	> 2000	Rabbit	
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
	dermal	LD50 mg/kg	> 10000	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitizing effects

Contains epoxy constituents. May produce an allergic reaction. May cause an allergic skin reaction. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane; reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2); oxirane, mono[(C12-14-alkyloxy)methyl] derivs.)

May cause heavy allergic reactions with chronic effects after a sensitization and a later exposure by very low amounts.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

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12.1 Toxicity

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	Acute fish toxicity	LC50	2,0 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	11 mg/l	72 h	algae	
	Acute crustacea toxicity	EC50	1,8 mg/l	48 h	Daphnia magna	
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane					
	Acute fish toxicity	LC50	2,54 mg/l	96 h	fish	
	Acute algae toxicity	ErC50	1,8 mg/l	72 h	algae	
	Acute crustacea toxicity	EC50	2,55 mg/l	48 h	Daphnia magna	
933999-84-9	reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)					
	Acute fish toxicity	LC50	30 mg/l	96 h	Leuciscus idus (golden orfe)	

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1675-54-3	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	3,242
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({ 2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	3,6

12.4 Mobility in soil

No information available.

Further Information

Toxic to aquatic life with long lasting effects. Do not empty into drains or aquatic environments.

SECTION 13: Disposal Considerations

13.1 Product Disposal

Containers that have been completely emptied may be recycled per federal, state and local regulations and disposal guidelines. Containers that have not been emptied or contain product residue may still contain hazardous materials and should be disposed of in accordance with federal, state and local regulations regarding hazardous material disposal.

SECTION 14: Transportation Information

Land transport (ADR/RID)

- 14.1. UN number: UN 3082
- 14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
- 14.3. Transport hazard class(es): 9
- 14.4. Packing group: III
- Hazard label: 9

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Classification code: M6
Special Provisions: 274 335 601
Limited quantity: 5 L
Transport category: 3
Hazard No: 90
Tunnel restriction code: E

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9
Classification code: M6
Special Provisions: 274 335 601
Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9
Marine pollutant: yes
Special Provisions: 274, 335
Limited quantity: 5 L
EmS: F-A, S-F

Other applicable information (marine transport)

E1

Air transport (ICAO)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9
Special Provisions: A97 A158
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L

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IATA-packing instructions - Cargo: 964
IATA-max. quantity -Cargo: 450 L

Other applicable information (air transport)

E1
: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes
Danger releasing substance: epoxy resin

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2004/42/EC (VOC): < 500 g/l (A+B)
Subcategory according to Directive Two-pack reactive performance coatings for specific end use such as floors-
2004/42/EC: Solvent-borne coatings, VOC limit value: 500 g/l

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other Information

Changes

This data sheet contains changes from the previous version in section(s): 14.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H- and EUH-phrases (Number and full text)

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
EUH205 Contains epoxy constituents. May produce an allergic reaction.

Further Information

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this SDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

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ACTECH Vapor Epoxy Slurry Part B

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

AC•Tech 2170 FC, Part B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Chemical product for construction and industry

1.3 Details of the supplier of the safety data sheet

Manufacturer:	Allied Construction Technologies, Inc. 3302 Croft Street Norfolk, VA 23513	Phone:(757)-855-5100 Email: Team@actechperforms.com
Emergency Phone:	US & Canada Infotrac: (800) 535-5053 (Contract #104212)	International Infotrac: 1-352-323-3500

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory/skin sensitization: Skin Sens. 1

Reproductive toxicity: Repr. 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility.

Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

m-phenylenebis(methylamine)

4-tert-butylphenol

trimethylhexane-1,6-diamine

Signal word: Danger

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Pictograms:



Hazard statements

- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H361f Suspected of damaging fertility.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTER/doctor.

NFPA and HMIS Rating

NFPA Rating	Health: 2	Fire: 1	Reactivity: 0
HMIS Rating	Health: 2	Flammability: 1	Physical Hazard: 0

SECTION 3: Composition/Information on Ingredients

3.1 Mixtures

Hazardous Components

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
1477-55-0	m-phenylenebis(methylamine)			10 - < 25 %
	216-032-5		01-2119480150-50	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H332 H302 H314 H317 H412			
98-54-4	4-tert-butylphenol			10 - < 25 %
	202-679-0	604-090-00-8	01-2119489419-21	
	Repr. 2, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H361f H315 H318 H400 H410			
25620-58-0	trimethylhexane-1,6-diamine			5 - < 10 %
	247-134-8		01-2119560598-25	
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1; H302 H314 H318 H317			

For Full text R-,H- and EUH-phrases: see section 16.

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General Information

Change contaminated clothing. If you feel unwell due to accidental exposure, seek medical attention immediately.
 (show MSDS if possible)

After inhalation

Move to fresh air and keep warm and rest.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
 Consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious) . Sip water. Do not induce vomiting.
 Immediately get medical attention.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

- alcohol resistant foam.
- Water spray.
- Carbon dioxide (CO₂).
- dry extinguishing powder.

Unsuitable extinguishing media

- High power water jet.

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5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

- Carbon monoxide
- Carbon dioxide
- Nitrogen oxides (NOx).

5.3 Advise for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. See protective measures under point 7 and 8. Provide adequate ventilation.

6.2 Environmental precautions

Do not empty into drains or the aquatic environment. Cover drains. Clean contaminated objects and areas thoroughly observing environmental regulations. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Remove mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

Personal protection equipment refer to chapter 8.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Wear protective clothing. Close container tightly once it is no longer in use. Store away from direct sunlight, heat, spark, fire and other sources of ignition. Empty containers may still contain mixed or unmixed materials, which may be hazardous.

7.2 Storage

Keep in closed, original container. Store container in a cool, dry and ventilated area. Protect from direct sunlight an heat or heating elements. Do not store near spark, fire and other sources of ignition. Keep away from food, beverages and animal feed. Keep away from oxidizing agents. Protect from frost, humidity and heat.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

PNEC values

CAS No	Substance	
	Environmental compartment	Value
1477-55-0	m-phenylenebis(methylamine)	
	Freshwater	0,094 mg/l
	Marine water	0,0094 mg/l

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Additional advice on limit values

To date, no national critic limit values exist.

8.2 Exposure Controls

Skin Protection

Use protective clothing to prevent skin contact. Wear nitrile or butyl rubber gloves. Ensure the chemical resistance of the gloves is suitable for use with these chemicals.

Eye Protection

Wear tight-fitting, protective goggles or face shield.

Respiratory Protection

When applying material in confined spaces, use appropriate NIOSH mask. When applying in vented spaces, respiratory protection is not required unless there are sensitivities to chemicals listed in MSDS.

Body Protection

For protection against direct skin contact, ensure protective clothing covers all exposed skin areas.

General Protection & Hygiene

Avoid contact with skin, eyes and clothing. In case of skin sensitivity, protect skin with protective skin cream. Remove contaminated clothing immediately. Do not eat, drink or smoke in or around application area. Wash hands before taking breaks and at the end of application.

Environmental Exposure Controls

Do not allow to enter into water or drains. If entry into waterways, soils or drains occurs, inform authorities.

SECTION 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Light Yellow
Odor:	Low
PH-Value:	12

Changes in physical state

Melting point	No Data Available
Initial Boiling point and boiling range	> 392 °F
Sublimation point	No Data Available
Softening point	No Data Available
Pour Point	No Data Available
Flash point:	> 212 °F

Flammability

Solid	No Data Available
Gas	No Data Available
Lower explosion limits	No Data Available
Upper explosion limits	No Data Available
Ignition temperature	> 662 °F

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Auto-ignition temperature

Solid	No Data Available
Gas	No Data Available
Decompression Temperature	No Data Available
Vapor Pressure	No Data Available
Density at 73 °F	~1.0 g/cm ³
Partition coefficient:	No Data Available
Viscosity/Dynamic (at 73 °F)	~700 CPS
Viscosity/Kinematic	No Data Available
Flow Time	No Data Available
Vapor Density	No Data Available
Evaporation Rate	No Data Available

SECTION 10: Stability and Reactivity

10.1 Reactivity

No dangerous reactions by handling and stock-keeping according to the guidelines.

10.2 Chemical Stability

No decomposition if used according to guidelines.

10.3 Possibility of hazardous reactions

No Data Available

10.4 Conditions to avoid

No Data Available

10.5 Incompatible materials

No Data Available

10.6 Hazardous decomposition products

No Data Available

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
1477-55-0	m-phenylenebis(methylamine)					
	oral	LD50	930 mg/kg	Rat		
	dermal	LD50	3100 mg/kg	Rabbit		
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			
98-54-4	4-tert-butylphenol					
	oral	LD50	4000 mg/kg	Rat		
	dermal	LD50	2318 mg/kg	Rabbit		
25620-58-0	trimethylhexane-1,6-diamine					
	oral	LD50	910 mg/kg	Rat		

Safety Data Sheet ACTECH Vapor Epoxy Slurry Part B

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitizing effects

May cause an allergic skin reaction. (m-phenylenebis(methylamine)), (trimethylhexane-1,6-diamine)

May cause heavy allergic reactions with chronic effects after a sensitization and a later exposure by very low amounts.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (4-tert-butylphenol)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Observations relevant to classification

Sensitization/Irritant effect on the respiratory tract: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

SECTION 12: Ecological Information

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1477-55-0	m-phenylenebis(methylamine)					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 20,3 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 15,2 mg/l	48 h	Daphnia magna		

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

Further Information

Harmful to aquatic life with long lasting effects. Do not empty into drains or the aquatic environment.

Safety Data Sheet ACTECH Vapor Epoxy Slurry Part B

SECTION 13: Disposal Considerations

13.1 Product Disposal

Containers that have been completely emptied may be recycled per federal, state and local regulations and disposal guidelines. Containers that have not been emptied or contain product residue may still contain hazardous materials and should be disposed of in accordance with federal, state and local regulations regarding hazardous material disposal.

SECTION 14: Transportation Information

Land transport (ADR/RID)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E

Other applicable information (land transport)

E2

Inland waterways transport (ADN)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C7
Special Provisions:	274
Limited quantity:	1 L

Other applicable information (inland waterways transport)

E2

Marine transport (IMDG)

14.1. UN number:	UN 2735
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Marine pollutant:	yes
Special Provisions:	274

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Limited quantity: 1 L
EmS: F-A, S-B

Other applicable information (marine transport)

E2

Air transport (ICAO)

14.1. UN number: UN 2735
14.2. UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8
 Special Provisions: A3 A803
 Limited quantity Passenger: 0.5 L
 IATA-packing instructions - Passenger: 851
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 855
 IATA-max. quantity -Cargo: 30 L

Other applicable information (air transport)

E2

: Y840

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Authorizations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

4-tert-butylphenol

2004/42/EC (VOC): < 500 g/l (A+B)

Subcategory according to Directive Two-pack reactive performance coatings for specific end use such as floors-

2004/42/EC: Solvent-borne coatings, VOC limit value: 500 g/l

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other Information

Changes

This data sheet contains changes from the previous version in section(s): 3.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361f	Calculation method
Aquatic Chronic 2; H411	

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Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this SDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.

Safety Data Sheet

ACTECH Vapor Epoxy Slurry Filler Part C

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

ACTECH VES Filler Part C

1.2 Relevant identified uses of the substance or mixture and uses advised against

Mixture between

quartz flour, quartz sand, mineral raw materials in various particle sizes and additive (in various formation)

1.3 Details of the supplier of the safety data sheet

Manufacturer: Allied Construction Technologies, Inc. Phone:(757)-855-5100
3302 Croft Street Email: Team@actechperforms.com
Norfolk, VA 23513

Emergency Phone: US & Canada International
Infotrac: (800) 535-5053 Infotrac: 1-352-323-3500
(Contract #104212)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Danger

Specific target organ toxicity repeated exposure respiratory tract irritation STOT RE 1.

Causes damage to lungs through prolonged or repeated exposure via inhalation.

This product contains quartz sand fine fraction. Specific target organ toxicity repeated exposure respiratory tract irritation STOT RE 1.

Depending on the type of handling and use (e.g. grinding), airborne fine fraction of crystalline silica may be generated. Prolonged and/or massive inhalation of fine fraction of crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principle symptoms of silicosis are cough and breathlessness. Occupational exposure to fine fraction of crystalline silica dust should be monitored and controlled.

2.2 Label Elements

Regulation (EC) No. 1272/2008

Hazardous components which must be listed on the label

None

Signal word: Danger

Pictograms:



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ACTECH Vapor Epoxy Slurry Filler Part C

Hazard statements

H372 Causes damage to lungs through prolonged or repeated exposure via inhalation

Precautionary statements

P260 Do not breathe dust

P285 In case of inadequate ventilation wear respiratory protection.

P501 Dispose of contents/containers in accordance with local regulation (Avoid dust generation)

SECTION 3: Composition/Information on Ingredients
3.1 Mixtures
Hazardous Components
Composition

Name	quantity wt.-%	CAS-No.	EC-No.	Regulation EC 1272/2008	REACH- Registration-No.
Quartz sand	0 – 75	14808-60-7	238-878-4	none	Exempted in accordance with Annex V.7
Quartz flour	25 – 100*	14808-60-7	238-878-4	STOT RE 1, H372	Exempted in accordance with Annex V.7

For Full text R-,H- and EUH-phrases: see section 16.

* Other mineral materials used in Dorsicoat PQQ QS/QM are not considered hazardous materials and therefore not specified on the provided list.

Impurities

Contains: Phenol methylstyrenated (amount <1%). May cause an allergic skin reaction.

SECTION 4: First Aid Measures
4.1 Description of first aid measures
Eye Contact

Don't chafe for avoiding damage of cornea. If necessary remove contact lenses. Rinse with copious quantities of water. If available, use isotonic flushing solution (0.9 wt.-% Sodium chloride). If irritation persists seek medical attention.

Inhalation

Movement of the exposed individual from the area to fresh air is recommended and get medical attention in case of serious respiratory problems.

Ingestion

No first-aid measure required.

Skin Contact

Wash with soap and water. No first aid necessary.

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4.2 Most important symptoms and effects, both acute and delayed

Prolonged and/or massive exposure to fine fraction of crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine fraction particles of crystalline silica.

4.3 Indication of any immediate medical attention and special treatment needed

Remove to fresh air and get medical attention in case of serious respiratory problems.

SECTION 5: Firefighting Measures

5.1 Extinguishing media

No specific extinguishing media is needed.

5.2 Special hazards arising from the substance or mixture

Non combustible. No hazardous thermal decomposition. No specific fire-fighting protection is required. Use an extinguishing agent suitable for the surrounding fire.

5.3 Advice for firefighters

No specific fire-fighting protection is required.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid airborne dust generation.

For non-emergency personnel: Wear protective equipment as described in Section 8. Follow the advice for safe handling and use given in Section 7.

For emergency responders: Emergency action plans are not required. However, respiratory protection is needed in situations with high dust levels.

6.2 Environmental precautions

No special requirements.

6.3 methods and material for containment and cleaning up

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

6.4 Reference to other sections

See section 8 and 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated.

In case of insufficient ventilation, wear suitable respiratory protective equipment, e.g. EN 149. Handle packaged product carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier or check the Good Practice Guide referred to in section 16.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Minimize airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting.

7.3 Specific end use(s)

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If you require advice on specific uses, please contact your supplier or check the Good Practice Guide referred to in section 16.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, fine fraction dust, fine fraction of crystalline silica dust). OEL (Occupational Exposure Limit) for fine fraction of silica dust see Annex to this safety data sheet. OEL is measured as an 8 hour TWA (Time Weighted Average). For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

Occupational exposure limit

EU-BOELV according to Directive (EU) 2004/37/EG

Respirable crystalline silica dust: 0,1 mg/m³ 8 hours TWA

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational measures, e.g. by isolating personal from dusty areas. Remove and wash soiled clothing.

8.2.2. Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries according to EN 166.

Skin protection

No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

Hand protection

Appropriate protection [e.g. gloves according to EN 374 or nitrile impregnated cotton gloves according to specification EN 374, barrier cream] is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

Respiratory protection

In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of European or national legislation.

8.2.3 Environmental exposure controls

Avoid wind dispersal.

SECTION 9: Physical and Chemical Properties

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9.1: Information on basic physical and chemical properties

Appearance / color	Solid (granular/powder), grey - white
Odour	Odourless
Odour threshold	Not relevant
pH-value	Approx. 6-8
Melting point/freezing point	Not relevant
Boiling point and boiling range	Not relevant
Flash point	Not relevant
Explosive properties	Not relevant
Vapor pressure	Not relevant
Steam-tight	Not relevant
Specific gravity	Approx. 2,6 – 3,6g/mL
Solubility(ies)	Solubility in water: negligible Solubility in hydrofluoric acid: yes
Partition coefficient: n-octanol/water	Not applicable
Auto-ignition temperature	Not applicable (not pyrophoric - no organo-metallic, organo-semimetal or organo-phosphane bonds or derivatives and no other pyrophoric components)
Decomposition temperature	Not applicable
Viscosity	Not applicable since no liquid
Explosive properties	Not applicable
Oxidising properties	Not applicable

9.2 Other information

No other information

SECTION 10: Stability and Reactivity

10.1 Reactivity

ACTECH VES Filler Part C is inert and not reactive.

10.2 Chemical Stability

ACTECH VES Filler Part C is stable under dry storing conditions.

10.3 Possibility of hazardous reactions

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No hazardous reactions.

10.4 Conditions to avoid

No conditions to avoid.

10.5 Incompatible materials

No incompatible materials known in regular use of Dorsicoat PQQ QS/QM.

10.6 Hazardous decomposition products

No hazardous decomposition products in regular use.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Weak irritation possible. (mechanical action)

Respiratory or skin sensitization

Contains: Phenol methylstyrenated (amount <1%). May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT - single exposure

Based on available data, the classification criteria are not met.

STOT - repeated exposure

This product contains quartz (fine fraction): Specific target organ toxicity repeated exposure respiratory tract irritation
STOT RE 1

Prolonged and/or massive exposure to fine fraction of crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine fraction particles of crystalline silica. In 1997, IARC (the international Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol.68, IARC, Lyon, France)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of fine fraction of crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry).

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Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

Quartz is a natural mineral and widely spread on earth and is nontoxic to aquatic organism and could be separated from waste water by settlement.

12.1 Toxicity

Not relevant

12.2 Persistence and degradability

Not relevant

12.3 Bioaccumulative potential

Not relevant

12.4 Mobility in soil

Negligible

12.5 Results of pbt and vpvb assessment

Not relevant

12.6 Other adverse effects

No specific injurious effects are known.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste from Residues / Unused Products

Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations. This material is not classified as hazardous waste according to Commission Decisions 2000/532/EC and 2001/118/EC.

Packaging

Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in closed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations.

SECTION 14: Transportation Information

14.1. UN number:	Not Relevant
14.2. UN proper shipping name:	Not Relevant
14.3. Transport hazard class(es):	ADR: Not Classified
	IMDG: not classified
	ICAO/IATA: not classified
	RID: not classified

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14.4. Packing group:	Not Relavent
14.5 Environmental hazard	Not relevant
14.6 Special precautions for user	No Special Precautions
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code	Not relevant

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulation:

Ordinance on Hazardous Substances (GefStoffV)

Water Hazard Class: nwg (non-hazardous to water), self-assessment according to VwVwS from 17.05.1999

Storage class according to TRGS 510: Storage class 13 (non-flammable solids)

Directive on the European List of Waste Materials

Technical Rules for Hazardous Substances 900 "Maximum Allowable Concentrations" (TRGS 900)

Technical Rules for Hazardous Substances 402 "Determination and Evaluation of Hazards during Operations with Hazardous Substances" (TRGS 402)

International legislation / regulation:

EC regulation 1907/2006 (REACH): This product is a mixture and therefore does not fall under the registration obligation.

Labeling in the EU: see section 2

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other Information

Information on revision data sheet

Section 1 - E-mail-address of responsible person for this SDS

Section 8 - Complement OEL

Section 15 – Regulatory information added

Section 16 – Abbreviations and acronyms, Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008; explanatory note OEL

Abbreviations and acronyms

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008

ADR/RID - European Agreements on the transport of Dangerous goods by Road/Railway

CAS – Chemical Abstracts Service

ICAO/IATA – International Civil Aviation Organization / International Air Transport Association

IMDG – International agreement on the Maritime transport of Dangerous Goods

PBT – Persistent, Bio-accumulative and Toxic (persistent, bioakkumulativ, toxisch)

REACH – Registration, Evaluation and Authorisation of Chemicals (Verordnung (EG) 1907/2006)

MSDS – Material Safety Data Sheet

vPvB – very Persistent, very Bioaccumulative (sehr persistent, sehr bioakkumulativ)

EU- BOELV - binding European occupational exposure limit value

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Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008

The assessment was carried out in accordance with Article 6 (5) and Annex I to Regulation (EC) No 1272/2008.

Hazard code of components in section 3

Specific target organ toxicity repeated exposure respiratory tract irritation STOT RE 1 (H372)

Training

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Justification of DIRECTIVE (EU) 2017/2398 of the European Parliament and of the Council of 12 December 2017 amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work:

(18) There is sufficient evidence of the carcinogenicity of respirable crystalline silica dust. On the basis of available information, including scientific and technical data, a limit value for respirable crystalline silica dust should be established. Respirable crystalline silica dust generated by a work process is not subject to classification in accordance with Regulation (EC) No 1272/2008. It is therefore appropriate to include work involving exposure to respirable crystalline silica dust generated by a work process in Annex I to Directive 2004/37/EC and to establish a limit value for respirable crystalline silica dust ('respirable fraction') that should be subject to review, in particular in light of the number of workers exposed.

(19) Guides and examples of good practices produced by the Commission, the Member States or the social partners, or other initiatives, such as the Social Dialogue 'Agreement on Workers' Health Protection Through the Good Handling and Use of Crystalline Silica and Products Containing it' (NEPSi) are valuable and necessary instruments to complement regulatory measures and in particular to support the effective implementation of limit values, and should therefore be given serious consideration. They include measures to prevent or minimise exposure such as water-assisted suppression to prevent dust from becoming airborne in the case of respirable crystalline silica.

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003).

So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required.

Social dialogue on respirable crystalline silica

A multi-sectoral social dialogue agreement on Workers Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it was signed on 25 April 2006. This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006. The Agreement was published in the Official Journal of the European Union (2006/C 279/02).

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The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica. Literature references are available on request from EUROSIL, the European Association of Industrial Silica Producers.

Health & Safety Executive (specific for UK): Detailed reviews of the scientific evidence on the health effects of crystalline silica have been published by HSE (Health and Safety Executive, UK) in the Hazard Assessment Documents EH75/4 (2002) and EH75/5 (2003). The HSE points out on its website that “Workers exposed to fine dust containing quartz are at risk of developing a chronic and possibly severely disabling lung disease known as “silicosis”. In addition to silicosis, there is now evidence that heavy and prolonged workplace exposure to dust containing crystalline silica can lead to an increased risk of lung cancer. The evidence suggests that an increased risk of lung cancer is likely to occur only in those workers who have developed silicosis.

Further Information

To the best of our knowledge, the information contained in this SDS is accurate. It is intended to assist the user in his evaluation of the product's hazards, and safety precautions to be taken in its use. The data on this SDS relate only to the specific material designated herein. We do not assume any liability for the use of, or reliance on this information, nor do we guarantee its accuracy or completeness.