

# Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 02/25/2013 Revision date: 01/24/2024 Version: G11/P

# **SECTION 1: Identification**

## 1.1. Product identifier

#### Product name Product code

: VB 225™ FS Part A (Resin)

: Not available.

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

Use of the substance/mixture : Epoxy binder.

## 1.3. Details of the supplier of the safety data sheet

Penetron Specialty Products Inc. 601 S. 10th Street, Unit 300 Allentown, PA 18103 - USA +1 (631) 941-9700 info@penetronsp.com – www.penetronsp.com

## 1.4. Emergency telephone number

Emergency number

: CHEMTREC: US and Canada: 1-800-424-9300; International +1 703-527-3887

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

GHS-US classification Skin Irritation 2 Eye Irritation 2A Skin Sensitization 1

# 2.2. Label elements

## GHS-US labelling

Hazard pictograms (GHS-US)

Signal word (GHS-US) Hazard statements (GHS-US) Precautionary statements (GHS-US)



## : Warning

- : Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.
- : Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3. Other hazards

No additional information available.

# 2.4. Unknown acute toxicity (GHS-US)

Not applicable.

# SECTION 3: Composition/information on ingredients

## 3.1. Substance

## Not applicable.

## 3.2. Mixture

Name	Product identifier	%
Bisphenol A-epichlorohydrin polymer	(CAS No) 25068-38-6	50 - 100
Phenol, 2,2'-methylenebis-, polymer with (chloromethyl)oxirane	(CAS No) 55492-52-9	25 - 50
Alkyl (C12-14) glycidyl ether	(CAS No) 68609-97-2	10 - 25

\* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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# **SECTION 4: First aid measures**

4.1.	Description of first-aid measures	
First-aid	measures after inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid	measures after skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid	measures after eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid	measures after ingestion	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
4.2.	Most important symptoms and effects	, both acute and delayed
Symptom	ns/injuries after inhalation	May cause respiratory tract irritation.
Symptom	ns/injuries after skin contact	Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.
Symptom	ns/injuries after eye contact	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptom	ns/injuries after ingestion	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
4.3.	Indication of any immediate medical a	ttention and special treatment needed
Symptom	s may not appear immediately. In case of a	cident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	Carbon dioxide. Extinguishing powder. Water jet. Alcohol resistant foam.
Unsuitab	le extinguishing media	Full water jet.
5.2.	Special hazards arising from the subs	tance or mixture
Fire haza	ırd	Products of combustion may include, and are not limited to: oxides of carbon and toxic gases.
5.3.	Advice for firefighters	
Protectio	n during firefighting	Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
SECTI	ON 6: Accidental release measu	ires
6 1	Baraanal processional protective aqui	ment and emergency precedures

6.1.	reisonal precautions, protective equ	inprient and emergency procedures
General r	neasures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
6.2.	Methods and material for containment	nt and cleaning up
For conta	inment	: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods	for cleaning up	: Scoop up material and place in a disposal container. Clean contaminated surfaces thoroughly. Provide ventilation.

# 6.3. Reference to other sections

See Section 8 for further information on protective clothing and equipment and Section 13 for advice on waste disposal.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.	
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.	

7.2.	Conditions for safe storage, including	g any incompatibilities
Storage of	conditions	: Keep out of the reach of children. Keep container tightly closed. Store in original container. Keep away from food, drink and animal feed.
7.3.	Specific end use(s)	
Not availa	able.	

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# **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters		
Bisphenol A-epichlorohydrin polymer (25068-38-6)		
ACGIH	Not applicable	
OSHA	Not applicable	
Phenol, 2,2'-methylenebis-,	polymer with (chloromethyl)oxirane (55492-52-9)	
ACGIH	Not applicable	
OSHA	Not applicable	
Alkyl (C12-14) glycidyl ether	(68609-97-2)	
ACGIH	Not applicable	
OSHA	Not applicable	
8.2. Exposure controls		
Appropriate engineering control	<ul> <li>Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.</li> </ul>	
Hand protection	: Protective gloves made of rubber or PVC.	
Eye protection	: Wear safety glasses with side shields or goggles.	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.	
Environmental exposure control	s : Maintain levels below Community environmental protection thresholds.	
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.	

# **SECTION 9: Physical and chemical properties**

	nemical properties
Physical state	: Liquid
Appearance	: Yellowish fluid
Color	: Yellow
Odor	: Weak, characteristic
Odor threshold	: No data available
DH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 392 °F (> 200 °C)
Flash point	: > 302 °F (> 150 °C)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 1.1 g/cm³ @ 73.4 °F (23 °C)
Relative vapor density at 20 °C	: No data available
Solubility	: Not miscible or difficult to mix
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 950 mPas @ 77 °F (25 °C)

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#### 9.2. Other information

No additional information available.

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. **Chemical stability**

Stable under normal storage conditions.

#### 10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents, alkalis, amines and acids.

#### 10.4. Conditions to avoid

Heat. Incompatible materials.

#### 10.5. Incompatible materials

Strong oxidizing agents. Alkalis. Amines. Acids.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon and toxic gases.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

	6013	
Acute toxicity	: Not classified	
VB 225™ FS Part A (Resin)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat	No data available	
Bisphenol A-epichlorohydrin polymer (25068-38-6)		
LD50 oral rat	11400 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Phenol, 2,2'-methylenebis-, polymer with (chloromethyl)oxirane (55492-52-9)		
LD50 oral rat	> 5000 mg/kg	
Alkyl (C12-14) glycidyl ether (68609-97-2)		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 4500 mg/kg	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: 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.	

#### : Based on available data, the classification criteria are not met. Specific target organ toxicity (single exposure)

- : Based on available data, the classification criteria are not met.
- Symptoms/injuries after inhalation May cause respiratory tract irritation. 1
- Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of Symptoms/injuries after skin contact the skin. May cause sensitization by skin contact.

production, with marked redness and swelling of the conjunctiva.

: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

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

Symptoms/injuries after eye contact

Symptoms/injuries after ingestion

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Reproductive toxicity

Aspiration hazard

Ecology - general

: Toxic to aquatic life with long lasting effects.

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#### 12.2. Persistence and degradability VB 225<sup>™</sup> FS Part A (Resin) Persistence and degradability Not established. 12.3. **Bioaccumulative potential** VB 225<sup>™</sup> FS Part A (Resin) Bioaccumulative potential Not established. 12.4. Mobility in soil No additional information available. 12.5 Other adverse effects Effect on the global warming : No known ecological damage caused by this product. **SECTION 13: Disposal considerations** 13.1. Waste treatment methods Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

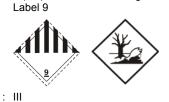
# **SECTION 14: Transport information**

14.1	DOT
Non-regu	lated material
14.2	ADR
UN Num	ber
Proper sl	nipping name
Transpor	t hazard class(es)

: UN3082

: Yes

- : 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
- : 9 (M6) Miscellaneous dangerous substances and articles



Packing group Marine pollutant 14.3 IMDG UN Number Proper shipping name

Transport hazard class(es)

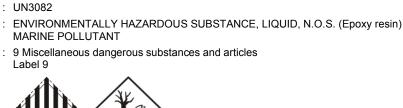
Packing group Marine pollutant

#### 14 4 ΙΑΤΑ

**UN Number** Proper shipping name

Transport hazard class(es)

Packing group





: 111 1 Yes

- : UN3082
- : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)
- : 9 Miscellaneous dangerous substances and articles Label 9



: 111



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14.5. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: Do not handle until all safety precautions have been read and understood.

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Alkyl (C12-14) glycidyl ether (68609-97-2)	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

# 15.2. US State regulations

VB 225™ FS Part A (Resin)	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

# **SECTION 16: Other information**

Date of issue	: 02/25/2013
Revision date	: 01/24/2024
Other information	: None.

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 02/25/2013 Revision date: 01/24/2024 Version: G11/P

# **SECTION 1: Identification**

## 1.1. Product identifier

# Product name

: VB 225<sup>™</sup> FS Part B (Hardener)

Product code : Not available.

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

Use of the substance/mixture

: Epoxy resin hardening agent.

## 1.3. Details of the supplier of the safety data sheet

Penetron Specialty Products Inc. 601 S. 10th Street, Unit 300 Allentown, PA 18103 - USA +1 (631) 941-9700 info@penetronsp.com – www.penetronsp.com

## 1.4. Emergency telephone number

Emergency number

: CHEMTREC: US and Canada: 1-800-424-9300; International +1 703-527-3887

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

## **GHS-US** classification

Acute toxicity - Oral 4; Dermal 4; Inhalation 3 Skin corrosion/skin irritation 2 Serious eye damage/eye irritation 1 Reproductive toxicity 2

## 2.2. Label elements

## GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Hazard statements (GHS-US)

Precautionary statements (GHS-US)

: Danger

: Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child.

Colses serious eye damage. Suspected of damaging retainty of the dinborn child.
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Response: If exposed or concerned: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Eyes - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician. Skin - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Inhalation - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician. Ingestion - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Storage - Store locked up. Store in a well-ventilated place. Keep container tightly closed. Disposal - Dispose of contents/container to an approved waste disposal plant.

## 2.3. Other hazards

Hazards Not Otherwise Classified (HNOC) : N/A

# 2.4. Unknown acute toxicity (GHS-US)

25% unknown acute toxicity.

Other information: Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

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# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable.

## 3.2. Mixture

Name	Product identifier	%
p-tert-Butyl phenol	(CAS No) 98-54-4	25 - 50
m-Xylenealpha., .alpha.'-diamine	(CAS No) 1477-55-0	25 - 50

\* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

# **SECTION 4: First aid measures**

4.1. Description of first aid measures	
First-aid measures after inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen.
First-aid measures after skin contact	: In case of contact, wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms persist, call a physician.
First-aid measures after eye contact	: In case of contact, rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.
First-aid measures after ingestion	: If swallowed, rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries after inhalation	: Harmful if inhaled. Causes severe damage to the respiratory tract. Coughing and/or wheezing.
Symptoms/injuries after skin contact	: May cause skin irritation, may cause burning sensation. Prolonged contact may cause redness and irritation.
Symptoms/injuries after eye contact	: Causes serious eye damage, severely irritating to eyes. May cause irreversible damage to the eyes. May cause burns.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. May cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical, carbon dioxide, water spray.
Unsuitable extinguishing media	: CAUTION: Use of water spray when fighting fire may be inefficient.
5.2. Special hazards arising from th	e substance or mixture
Fire hazard	: When heated, vapors may form explosive mixtures with air: indoors, outdoors and sewers explosion hazards. Runoff may pollute waterways. Substances may be transported in a molter form.
	Uniform Fire Code: Irritant: Liquid
	<i>Toxic:</i> Liquid
	Combustible Liquid: III-B
5.3. Advice for firefighters	
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
SECTION 6: Accidental release n	neasures

General measures : Use special care to avoid static electric charges. Eliminate sources of ignition. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. DO NOT GET WATER INSIDE CONTAINERS.

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6.2.

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Methods and material for containment and cleaning up

	<b>0</b> 1
For containment	Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up	: Scoop up material and place in a properly labelled disposal container. Clean contaminated surfaces thoroughly. Provide ventilation. Soak up with inert absorbent materials.
6.3. Reference to other sectio	ns
See Section 8 for further information	on protective clothing and equipment and Section 13 for advice on waste disposal.
SECTION 7: Handling and st	torage
7.1. Precautions for safe hand	lling
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/ fume/gas/mist/vapors/spray. Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapor or mist. Use only with adequate ventilation and in closed systems.
Hygiene measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2. Conditions for safe storage	ge, including any incompatibilities
Storage conditions	: Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.
 Keep out of the reach of children. Protect from moisture. Store away from other materials. Store away from sources of ignition.
 Strong acids. Strong oxidizing agents. Strong bases.

Incompatible Products

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

m-Xylenealpha., .alpha. '-diamine (1477-55-0)	
ACGIH	S*
	Ceiling: 0.1 mg/m <sup>3</sup>
OSHA	(vacated) S*
	(vacated)Ceiling: 0.1 mg/m <sup>3</sup>
NIOSH	Ceiling: 0.1 mg/m <sup>3</sup>
Other exposure guidelines:	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F. 2d 962 (11th Cir., 1992)

#### 8.2. Exposure controls

Appropriate engineering controls	: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
Hand protection	: Protective gloves made of rubber or PVC.
Eye protection	: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Clear to light yellow fluid	
Color	: Yellow	
Odor	: Amine	
Odor threshold	: No data available	
рН	: 11	
Melting point	: No data available	

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Freezing point	:	No data available
Boiling point	:	392 °F (200 °C)
Flash point	:	302 °F (150°C)
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Vapor pressure	:	No data available
Specific gravity	:	1.02
Relative vapor density at 20 °C		No data available
Solubility	:	Slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	500

# 9.2. Other information

No additional information available.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2. Chemical stability

Stable under normal storage conditions.

# 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 10.4. Conditions to avoid

Sources of ignition. Heat. Incompatible materials.

#### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases.

# 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity

: Harmful if inhaled.

p-tert-Butyl phenol (98-54-4)	
LD50 oral rat	3250 μL/kg
LD50 dermal rabbit	2318 mg/kg
m-Xylenealpha., .alpha. '-diamine (14	477-55-0)
LD50 oral rat	660 mg/kg
LD50 dermal rabbit	2 g/kg
LC50 inhalation rat	700 ppm 1 hour
Skin corrosion/irritation	: Causes skin irritation. Prolonged contact may cause redness and irritation. May be absorbed through the skin in harmful amounts. Harmful in contact with skin. Erythema (skin redness).
Serious eye damage/irritation	: Causes serious eye damage. Severely irritating to eyes. May cause irreversible damage to eyes.
Respiratory or skin sensitization	: May cause irritation of respiratory tract. Toxic by inhalation.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
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Reproductive toxicity	: Contains a known or suspected reproductive toxin.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause irritation of respiratory tract. Toxic by inhalation. Coughing and/or wheezing. Difficulty in breathing.
Symptoms/injuries after skin contact	: Causes skin irritation. Prolonged contact may cause redness and irritation. May be absorbed through the skin in harmful amounts. Harmful in contact with skin. Erythema (skin redness).
Symptoms/injuries after eye contact	: Causes serious eye damage. Severely irritating to eyes. May cause irreversible damage to eyes. May cause blindness; burning.
Symptoms/injuries after ingestion	: Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed.

# **SECTION 12: Ecological information**

Ecology - general

: Toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

p-tert-Butyl phenol (98-54-4)	
Toxicity to Algae	72h EC50 = 11.2 mg/L (Desmodesmus subspicatus)
Toxicity to Fish	96h LC50: 4.71 – 5.62 mg/L (Pimephales promelas) 96h LC50 = 6.9 mg/L (Cyprinus carpio)
Toxicity to Microorganisms	EC50 = 0.21 mg/L 5 min
Daphina Magna (Water Flea)	48h EC50 = 3.9 mg/L 48h EC50: 3.4 – 4.5 mg/L

#### 12.3. **Bioaccumulative potential**

p-tert-Butyl phenol (98-54-4)		
Bioaccumulative potential	Log Pow 2.44	
12.4. Mobility in soil		
No additional information available.		
12.5. Other adverse effects		
Effect on the global warming	No known ecological damage caused by this product.	
SECTION 13: Disposal considerat		
Waste disposal recommendations	<ul> <li>This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in</li> </ul>	

: Dispose of contents/containers in accordance with local regulations.

Additional information

# **SECTION 14: Transport information**

14.1 DOT, ADR, IMDG, IATA	
UN Number	: UN2735
Proper Shipping Name	: AMINES, LIQUID, CORROSIVE, N.O.S.*
Transport Hazard Class(es)	: 8
Hazard labels	
Packing group	: 11
Marine pollutant	: Yes
14.2. Additional information	
Special transport precautions	: Do not handle until all safety precautions have been read and understood.

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### 15.2. US State regulations

VB 225™ FS Part B (Hardener)	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

# **SECTION 16: Other information**

Date of issue	:	02/25/2013
Revision date	:	01/24/2024
Other information	:	None.

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