

SAFETY DATA SHEET

Issue Date 13-Feb-2015 Revision Date 24-Aug-2016 Version 2

1. IDENTIFICATION

Product identifier

Product Name Bostex 533B

Other means of identification

Product Code BOSTEX 533B UN/ID no. UN3082

Synonyms Aqueous cure dispersion

Recommended use of the chemical and restrictions on use

Recommended Use Latex Additive. Uses advised against None known

Details of the supplier of the safety data sheet

Supplier Address Akron Dispersions, Inc. 3291 Sawmill Road P.O. Box 4195 Akron, OH 44321

Emergency telephone number

Company Phone Number 330-666-0045

Emergency Telephone Chemtrec 1-800-424-9300 (Within USA and Canada), (+1) 703-741-5970 (Outside USA

and Canada)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization	Category 1
Carcinogenicity	Category 1A

Label elements

Emergency Overview

Danger

Hazard statements

May cause an allergic skin reaction May cause cancer



Odor Ammoniacal **Appearance** Aqueous solution Physical state Liquid

Precautionary Statements - Prevention

Obtain special instructions before use

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

Use personal protective equipment as required

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see .? on this label)

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Synonyms Aqueous cure dispersion.

Chemical Name	CAS No.	Weight-%	Trade Secret
2-Mercaptobenzothiazole	149-30-4	45 - 55	*
Ammonium hydroxide	1336-21-6	0 - 0.10	*
Formaldehyde	50-00-0	0 - 0.002	*
Quinoline	91-22-5	0 - 0.002	*
Naphthalene	91-20-3	0 - 0.0006	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

Non-hazardous ingredients are proprietary and comprise the balance of the formulation.

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash off immediately with soap and plenty of water. If skin irritation persists, call a

physician.

Inhalation Remove to fresh air. If breathing is difficult seek medical attention.

Ingestion If on skin: Wash with plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms May cause irritation to skin, eyes, and respiratory tract. Do not drink alcoholic beverages

immediately before or after handling-may cause violent nausea and vomiting. May cause

skin sensitization or allergic eczema.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

The product causes irritation of eyes, skin and mucous membranes.

Hazardous combustion productsOxides of carbon, nitrogen, sulfur and sodium. Aromatic hydrocarbons. Aliphatic

hydrocarbons.

Explosion data

Sensitivity to Mechanical Impact No data available. Sensitivity to Static Discharge No data available.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for

later disposal.

Methods for cleaning up Sweep, vacuum or shovel into appropriate container.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, dry area. Protect from freezing.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents. Magnesium.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Formaldehyde	Ceiling: 0.3 ppm	TWA: 0.75 ppm	IDLH: 20 ppm
50-00-0		(vacated) TWA: 3 ppm unless	Ceiling: 0.1 ppm 15 min
		specified in 1910.1048	TWA: 0.016 ppm
		(vacated) STEL: 10 ppm 30 min	
		unless specified in 1910.1048	
		(vacated) Ceiling: 5 ppm unless	
		specified in 1910.1048	
		STEL: 2 ppm see 29 CFR	
		1910.1048	
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	IDLH: 250 ppm
91-20-3	S*	TWA: 50 mg/m ³	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 50 mg/m ³
		(vacated) TWA: 50 mg/m ³	STEL: 15 ppm
		(vacated) STEL: 15 ppm	STEL: 75 mg/m ³
		(vacated) STEL: 75 mg/m ³	

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Aqueous solution Odor Ammoniacal

ColorOdor thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 10-12 Melting point/freezing point 0 $^{\circ}$ C Boiling point / boiling range 100 $^{\circ}$ C

Flash point

Evaporation rate

Flammability (solid, gas)
Flammability Limit in Air

No information available
No information available
No information available

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available
No information available

Relative density No information available

Water solubility Miscible in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available **Explosive properties** No information available Oxidizing properties No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
Bulk density
No information available
No information available
No information available
No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Magnesium.

Hazardous Decomposition Products

Oxides of carbon, nitrogen, sulfur and sodium. Aromatic hydrocarbons. Aliphatic hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation No data available.

Eye contact No data available.

Skin contact No data available.

Ingestion No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Mercaptobenzothiazole 149-30-4	= 100 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Ammonium hydroxide 1336-21-6	= 350 mg/kg (Rat)	-	-
Formaldehyde	= 100 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h

50-00-0			
Quinoline 91-22-5	= 331 mg/kg (Rat)	= 540 μL/kg (Rabbit)	-
Naphthalene 91-20-3	= 490 mg/kg (Rat) = 1110 mg/kg (Rat)	> 20 g/kg (Rabbit) = 1120 mg/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Formaldehyde 50-00-0	A2	Group 1	Known	X
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	Х

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document ...

ATEmix (dermal) 16,285.43

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a marine pollutant according to DOT.

Ecotoxicity

1.7 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Mercaptobenzothiazole	0.25: 96 h Pseudokirchneriella	1.32 - 2.73: 96 h Lepomis	4.1: 48 h Daphnia magna mg/L
149-30-4	subcapitata mg/L EC50	macrochirus mg/L LC50 static 0.42:	EC50
		96 h Oncorhynchus mykiss mg/L	
		LC50 static 11: 96 h Pimephales	
		promelas mg/L LC50 static	
Ammonium hydroxide	-	8.2: 96 h Pimephales promelas	0.66: 48 h Daphnia pulex mg/L
1336-21-6		mg/L LC50	EC50 0.66: 48 h water flea mg/L
			EC50
Formaldehyde	-	0.032 - 0.226: 96 h Oncorhynchus	11.3 - 18: 48 h Daphnia magna
50-00-0		mykiss mL/L LC50 flow-through 100	mg/L EC50 Static 2: 48 h Daphnia
		- 136: 96 h Oncorhynchus mykiss	magna mg/L LC50
		mg/L LC50 static 22.6 - 25.7: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through 23.2 - 29.7: 96 h	
		Pimephales promelas mg/L LC50	
		static 1510: 96 h Lepomis	
		macrochirus μg/L LC50 static 41: 96	
		h Brachydanio rerio mg/L LC50	
		static	
Quinoline	84: 72 h Desmodesmus subspicatus		45.9 - 57.3: 48 h Daphnia magna
91-22-5	mg/L EC50 static 90: 96 h	LC50 static 46: 96 h Pimephales	mg/L EC50 Static 28.5: 48 h
	Desmodesmus subspicatus mg/L	promelas mg/L LC50 static 77.8: 96	Daphnia magna mg/L EC50
	EC50 static 51: 4 h	h Pimephales promelas mg/L LC50	
	Pseudokirchneriella subcapitata	flow-through	
	mg/L EC50		
Naphthalene	0.4: 72 h Skeletonema costatum	0.91 - 2.82: 96 h Oncorhynchus	1.09 - 3.4: 48 h Daphnia magna

91-20-3	mg/L EC50	mykiss mg/L LC50 static 5.74 - 6.44:	mg/L EC50 Static 1.96: 48 h
		96 h Pimephales promelas mg/L	Daphnia magna mg/L EC50 Flow
		LC50 flow-through 1.6: 96 h	through 2.16: 48 h Daphnia magna
		Oncorhynchus mykiss mg/L LC50	mg/L LC50
		flow-through 1.99: 96 h Pimephales	~
		promelas mg/L LC50 static 31.0265:	
		96 h Lepomis macrochirus mg/L	
		LC50 static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
2-Mercaptobenzothiazole 149-30-4	2.3 - 2.5
Formaldehyde 50-00-0	0.35
Quinoline 91-22-5	1.88 - 2.06
Naphthalene 91-20-3	3.3

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDispose of in accordance with federal, state and local regulations.

Contaminated packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Formaldehyde	U122	Included in waste streams:	-	U122
50-00-0		K009, K010, K038, K040,		
		K156, K157		
Naphthalene	U165	Included in waste streams:	-	U165
91-20-3		F024, F025, F034, F039,		
		K001, K035, K060, K087,		
		K145		

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene	-	-	Toxic waste	-
91-20-3			waste number F025	
			Waste description:	
			Condensed light ends, spent	
			filters and filter aids, and	
			spent desiccant wastes from	
			the production of certain	
			chlorinated aliphatic	
			hydrocarbons, by free radical	
			catalyzed processes.	
			These chlorinated aliphatic	
			hydrocarbons are those	
			having carbon chain lengths	
			ranging from one to and	
			including five, with varying	
			amounts and positions of	
			chlorine substitution.	

Chemical Name	California Hazardous Waste Status
Ammonium hydroxide	Toxic
1336-21-6	Corrosive
Formaldehyde	Toxic
50-00-0	Ignitable
Naphthalene	Toxic
91-20-3	

14. TRANSPORT INFORMATION

DOT

UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (2-Mercaptobenzothiazole)

Hazard Class 9
Packing Group III

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to DOT.

IATA

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (2-Mercaptobenzothiazole)

Hazard Class 9
Packing Group III

IMDG

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s. (2-Mercaptobenzothiazole)

Hazard Class 9
Packing Group ||

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDĠ/IMO

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
2-Mercaptobenzothiazole - 149-30-4	1.0
Ammonium hydroxide - 1336-21-6	1.0
Formaldehyde - 50-00-0	0.1
Quinoline - 91-22-5	1.0
Naphthalene - 91-20-3	0.1

SARA 311/312 Hazard Categories

Acute health hazard Yes **Chronic Health Hazard** Yes Fire hazard No Sudden release of pressure hazard No **Reactive Hazard** No

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium hydroxide 1336-21-6	1000 lb	-	-	Х
Formaldehyde 50-00-0	100 lb	-	-	Х
Quinoline 91-22-5	5000 lb	-	-	Х
Naphthalene 91-20-3	100 lb	X	X	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ammonium hydroxide 1336-21-6	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ
Formaldehyde 50-00-0	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ
Quinoline 91-22-5	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Naphthalene 91-20-3	100 lb 1 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations

California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

Chemical Name	California Proposition 65
Formaldehyde - 50-00-0	Carcinogen
Quinoline - 91-22-5	Carcinogen
Naphthalene - 91-20-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Mercaptobenzothiazole 149-30-4	X	-	-
Ammonium hydroxide 1336-21-6	X	X	Х
Formaldehyde 50-00-0	X	X	Х
Quinoline 91-22-5	X	Х	X
Naphthalene 91-20-3	X	X	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties -

Health hazards 2 Flammability 0 Physical hazards 0 Personal protection C

Prepared By
Issue Date
Revision Date
Revision Note
Diane M. Hunsicker
13-Feb-2015
24-Aug-2016

SDS sections updated: 1, 14

Disclaimer

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End of Safety Data Sheet