

Issue Date 20-Feb-2015

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Version 3

1. IDENTIFICATION**Product identifier****Product Name** Bostex 482A**Other means of identification****Product Code** BOSTEX 482A**UN/ID no.** UN3082**Synonyms** Aqueous accelerator 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)

Acute toxicity - Oral	Category 4
Skin sensitization	Category 1

Label elements**Emergency Overview****Warning****Hazard statements**

Harmful if swallowed

May cause an allergic skin reaction



Most important symptoms and effects, both acute and delayed

Symptoms May cause irritation to skin and eyes. Skin sensitization may occur.

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 products Oxides of carbon, nitrogen, zinc, sodium and sulfur. Carbon disulfide. Dibutylamine.

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 oxidizing agents. Nitrosating agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Formaldehyde 50-00-0	Ceiling: 0.3 ppm	TWA: 0.75 ppm (vacated) TWA: 3 ppm unless specified in 1910.1048 (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	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min TWA: 0.016 ppm
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm 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	Odor	Ammoniacal
Appearance	Aqueous solution	Odor threshold	No information available
Color	Light beige to yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7 - 10	
Melting point/freezing point	0 °C	
Boiling point / boiling range	100 °C	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	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	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	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 oxidizing agents. Nitrosating agents.

Hazardous Decomposition Products

Oxides of carbon, nitrogen, zinc, sodium and sulfur. Carbon disulfide. Dibutylamine.

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
Zinc 2-Mercaptobenzothiazole 155-04-4	= 540 mg/kg (Rat)	-	-
2-Mercaptobenzothiazole 149-30-4	= 100 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Ammonium hydroxide 1336-21-6	= 350 mg/kg (Rat)	-	-
Formaldehyde 50-00-0	= 100 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat) 4 h
Quinoline	= 331 mg/kg (Rat)	= 540 µL/kg (Rabbit)	-

91-22-5			
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

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No 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	X

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

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

ATEmix (oral)	1,357.00
ATEmix (dermal)	89,256.56

12. ECOLOGICAL INFORMATION

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

Ecotoxicity

41.58573 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-Mercaptobenzothiazole 149-30-4	0.25: 96 h Pseudokirchneriella subcapitata mg/L EC50	1.32 - 2.73: 96 h Lepomis macrochirus mg/L LC50 static 0.42: 96 h Oncorhynchus mykiss mg/L LC50 static 11: 96 h Pimephales promelas mg/L LC50 static	4.1: 48 h Daphnia magna mg/L EC50
Ammonium hydroxide 1336-21-6	-	8.2: 96 h Pimephales promelas mg/L LC50	0.66: 48 h Daphnia pulex mg/L EC50 0.66: 48 h water flea mg/L EC50
Formaldehyde 50-00-0	-	0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through 100 - 136: 96 h Oncorhynchus mykiss 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	11.3 - 18: 48 h Daphnia magna mg/L EC50 Static 2: 48 h Daphnia magna mg/L LC50
Quinoline 91-22-5	84: 72 h Desmodesmus subspicatus mg/L EC50 static 90: 96 h Desmodesmus subspicatus mg/L EC50 static 51: 4 h Pseudokirchneriella subcapitata mg/L EC50	40: 96 h Poecilia reticulata mg/L LC50 static 46: 96 h Pimephales promelas mg/L LC50 static 77.8: 96 h Pimephales promelas mg/L LC50 flow-through	45.9 - 57.3: 48 h Daphnia magna mg/L EC50 Static 28.5: 48 h Daphnia magna mg/L EC50
Naphthalene 91-20-3	0.4: 72 h Skeletonema costatum mg/L EC50	0.91 - 2.82: 96 h Oncorhynchus mykiss mg/L LC50 static 5.74 - 6.44:	1.09 - 3.4: 48 h Daphnia magna mg/L EC50 Static 1.96: 48 h

		96 h Pimephales promelas mg/L LC50 flow-through 1.6: 96 h Oncorhynchus mykiss 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	Daphnia magna mg/L EC50 Flow through 2.16: 48 h Daphnia magna mg/L LC50
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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 wastes

Dispose 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 50-00-0	U122	Included in waste streams: K009, K010, K038, K040, K156, K157	-	U122
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	-	U165

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3	-	-	Toxic waste 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
Zinc 2-Mercaptobenzothiazole 155-04-4	Toxic
Ammonium hydroxide 1336-21-6	Toxic Corrosive
Formaldehyde 50-00-0	Toxic Ignitable
Naphthalene 91-20-3	Toxic

14. TRANSPORT INFORMATION

DOT

UN/ID no. 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 III
Marine pollutant This product contains a chemical which is listed as a marine pollutant according to IMDG/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 %
Zinc 2-Mercaptobenzothiazole - 155-04-4	1.0
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	No
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
Zinc 2-Mercaptobenzothiazole 155-04-4	-	X	-	-
Ammonium hydroxide 1336-21-6	1000 lb	-	-	X
Formaldehyde 50-00-0	100 lb	-	-	X
Quinoline 91-22-5	5000 lb	-	-	X
Naphthalene 91-20-3	100 lb	X	X	X

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

This product may contain substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Zinc 2-Mercaptobenzothiazole 155-04-4	X	-	X
2-Mercaptobenzothiazole 149-30-4	X	-	-
Ammonium hydroxide 1336-21-6	X	X	X
Formaldehyde 50-00-0	X	X	X
Quinoline 91-22-5	X	X	X
Naphthalene 91-20-3	X	X	X

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 -
HMIS	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection B

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 Revision Note

SDS sections updated: 1

Disclaimer

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End of Safety Data Sheet