

Issue Date 11-Feb-2015

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Version 7

1. IDENTIFICATION

Product identifier
Product Name Bostex 805

Other means of identification
Product Code BOSTEX 805
UN/ID no. UN2810
Synonyms Aqueous masterbatch 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
Reproductive toxicity	Category 2

Label elements
Emergency Overview
Warning
Hazard statements

Harmful if swallowed
Suspected of damaging fertility or the unborn child


Ingestion If on skin: Wash with plenty of water.

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, sulfur, and sodium, hydrogen sulfide, amine, aniline.

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 oxidizers, magnesium, hydrocarbons, steel, copper, and copper alloys.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zinc oxide 1314-13-2	STEL: 10 mg/m ³ respirable fraction TWA: 2 mg/m ³ respirable fraction	TWA: 5 mg/m ³ fume TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ fume (vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable fraction (vacated) STEL: 10 mg/m ³ fume (vacated)	IDLH: 500 mg/m ³ Ceiling: 15 mg/m ³ dust TWA: 5 mg/m ³ dust and fume STEL: 10 mg/m ³ fume
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 (vacated) STEL: 2 ppm see 29 CFR 1910.1048	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min TWA: 0.016 ppm
Cadmium and compounds (as Cd) 7440-43-9	TWA: 0.01 mg/m ³ TWA: 0.002 mg/m ³ respirable fraction TWA: 0.01 mg/m ³ Cd TWA: 0.002 mg/m ³ Cd respirable fraction	TWA: 0.1 mg/m ³ fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 0.2 mg/m ³ dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect TWA: 5 µg/m ³ (vacated) STEL: 0.3 ppm fume Ceiling: 0.3 mg/m ³ fume applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect Ceiling: 0.6 mg/m ³ dust applies to any operations or sectors for which the Cadmium standard is stayed or otherwise not in effect	IDLH: 9 mg/m ³ dust IDLH: 9 mg/m ³ Cd dust and fume
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 (vacated)	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
Lead 7439-92-1	TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ Pb	TWA: 50 µg/m ³ TWA: 50 µg/m ³ Pb	IDLH: 100 mg/m ³ IDLH: 100 mg/m ³ Pb TWA: 0.050 mg/m ³ TWA: 0.050 mg/m ³ Pb

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	Off-white to light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	9 - 11	
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 bases, strong oxidizers, magnesium, hydrocarbons, steel, copper, and copper alloys.

Hazardous Decomposition Products
Oxides of carbon, nitrogen, sulfur, and sodium, hydrogen sulfide, amine, aniline.

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 oxide 1314-13-2	> 5000 mg/kg (Rat)	-	-
N-N'-diphenyl thiourea 102-08-9	= 50 mg/kg (Rat)	-	-
1,3-Diphenylguanidine 102-06-7	= 323 mg/kg (Rat)	> 2000 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 91-22-5	= 331 mg/kg (Rat)	= 540 µL/kg (Rabbit)	-
Cadmium and compounds (as Cd) 7440-43-9	= 1140 mg/kg (Rat)	-	= 25 mg/m ³ (Rat) 30 min
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
Zinc oxide 1314-13-2	-	-	Reasonably Anticipated	X
Formaldehyde 50-00-0	A2	Group 1	Known	X
Cadmium and compounds (as Cd) 7440-43-9	A2	Group 1	Known	X
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	X
Lead 7439-92-1	A3	Group 2A	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) 318.00
 ATEmix (dermal) 18,607.63

12. ECOLOGICAL INFORMATION

Ecotoxicity

15.60425 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
1,3-Diphenylguanidine 102-06-7	2.6: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 2: 72 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50 1.7: 96 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	11: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 4.2: 96 h <i>Pimephales promelas</i> mg/L LC50 static 9.6: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	17: 48 h <i>Daphnia magna</i> mg/L EC50
Ammonium hydroxide 1336-21-6	-	8.2: 96 h <i>Pimephales promelas</i> mg/L LC50	0.66: 48 h <i>Daphnia pulex</i> mg/L EC50 0.66: 48 h water flea mg/L EC50
Formaldehyde 50-00-0	-	0.032 - 0.226: 96 h <i>Oncorhynchus mykiss</i> mL/L LC50 flow-through 100 - 136: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 22.6 - 25.7: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 23.2 - 29.7: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1510: 96 h <i>Lepomis macrochirus</i> µg/L LC50 static 41: 96 h <i>Brachydanio rerio</i> mg/L LC50 static	11.3 - 18: 48 h <i>Daphnia magna</i> mg/L EC50 Static 2: 48 h <i>Daphnia magna</i> mg/L LC50
Quinoline 91-22-5	84: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 static 90: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50 static 51: 4 h <i>Pseudokirchneriella subcapitata</i> mg/L EC50	40: 96 h <i>Poecilia reticulata</i> mg/L LC50 static 46: 96 h <i>Pimephales promelas</i> mg/L LC50 static 77.8: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through	45.9 - 57.3: 48 h <i>Daphnia magna</i> mg/L EC50 Static 28.5: 48 h <i>Daphnia magna</i> mg/L EC50
Cadmium and compounds (as Cd) 7440-43-9	-	0.0004 - 0.003: 96 h <i>Pimephales promelas</i> mg/L LC50 0.002: 96 h <i>Cyprinus carpio</i> mg/L LC50 0.003: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 0.006: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 0.016: 96 h <i>Oryzias latipes</i> mg/L LC50 0.24: 96 h <i>Cyprinus carpio</i> mg/L LC50 static 21.1: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through 4.26: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static	0.0244: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Naphthalene 91-20-3	0.4: 72 h <i>Skeletonema costatum</i> mg/L EC50	0.91 - 2.82: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 5.74 - 6.44: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1.6: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 1.99: 96 h <i>Pimephales promelas</i> mg/L LC50 static 31.0265: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	1.09 - 3.4: 48 h <i>Daphnia magna</i> mg/L EC50 Static 1.96: 48 h <i>Daphnia magna</i> mg/L EC50 Flow through 2.16: 48 h <i>Daphnia magna</i> mg/L LC50
Lead 7439-92-1	-	0.44: 96 h <i>Cyprinus carpio</i> mg/L LC50 semi-static 1.17: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through 1.32: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static	600: 48 h water flea µg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
1,3-Diphenylguanidine 102-06-7	1.69
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
Cadmium and compounds (as Cd) 7440-43-9	-	Included in waste streams: F006, F039, K061, K069, K100	1.0 mg/L regulatory level	-
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145	-	U165
Lead 7439-92-1	-	Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K069, K086, K100, K176	5.0 mg/L regulatory level	-

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 oxide 1314-13-2	Toxic
Ammonium hydroxide 1336-21-6	Toxic Corrosive

Formaldehyde 50-00-0	Toxic Ignitable
Naphthalene 91-20-3	Toxic
Lead 7439-92-1	Toxic

14. TRANSPORT INFORMATION

DOT

UN/ID no. UN2810
Proper shipping name Toxic liquid, organic, n.o.s. (N,N'-Diphenylthiourea)
Hazard Class 6.1
Packing Group III

IATA

UN/ID no. UN2810
Proper shipping name Toxic liquid, organic, n.o.s. (N,N'-Diphenylthiourea)
Hazard Class 6.1
Packing Group III

IMDG

UN/ID no. UN2810
Proper shipping name Toxic liquid, organic, n.o.s. (N,N'-Diphenylthiourea)
Hazard Class 6.1
Packing Group III

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 oxide - 1314-13-2	1.0
Ammonium hydroxide - 1336-21-6	1.0
Formaldehyde - 50-00-0	0.1
Quinoline - 91-22-5	1.0
Cadmium and compounds (as Cd) - 7440-43-9	0.1

Naphthalene - 91-20-3	0.1
Lead - 7439-92-1	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 oxide 1314-13-2	-	X	-	-
Ammonium hydroxide 1336-21-6	1000 lb	-	-	X
Formaldehyde 50-00-0	100 lb	-	-	X
Quinoline 91-22-5	5000 lb	-	-	X
Cadmium and compounds (as Cd) 7440-43-9	-	X	X	-
Naphthalene 91-20-3	100 lb	X	X	X
Lead 7439-92-1	-	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
Cadmium and compounds (as Cd) 7440-43-9	10 lb	-	RQ 10 lb final RQ RQ 4.54 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
Lead 7439-92-1	10 lb	-	RQ 10 lb final RQ RQ 4.54 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
Cadmium and compounds (as Cd) - 7440-43-9	Carcinogen Developmental Male Reproductive
Naphthalene - 91-20-3	Carcinogen
Lead - 7439-92-1	Carcinogen Developmental Female Reproductive

	Male Reproductive
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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 oxide 1314-13-2	X	X	X
Ammonium hydroxide 1336-21-6	X	X	X
Formaldehyde 50-00-0	X	X	X
Quinoline 91-22-5	X	X	X
Cadmium and compounds (as Cd) 7440-43-9	X	X	X
Naphthalene 91-20-3	X	X	X
Lead 7439-92-1	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

Prepared By Diane M. Hunsicker
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 Revision Note

SDS sections updated: 14

Disclaimer

The information provided in this SDS was compiled from sources which we believe are accurate and reliable. However, this information is provided without warranty, expressed or implied, regarding its correctness. It is the user's responsibility to determine the suitability of any material for a specific purpose and adopt such safety precautions as may be necessary. We do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of, or in any way connected with the handling, storage, use, or disposal of this product.

End of Safety Data Sheet