

Issuing Date 01-Aug-2013

Revision Date 06-Mar-2023

Revision Number 6

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **MBOEA**

Other means of identification

Product Code 3609901
 CAS Number 19900-65-3
 Formula C17H22N2
 Synonyms Benzenamine, 4,4'-methylenebis(2-Ethyl-; 4,4'- Diamino-3,3'-Diethyl-Diphenylmethane
 UN-No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use Coatings
 Uses advised against Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address THE HANSON GROUP, LLC
 3044 Adriatic Court
 Peachtree Corners, GA 30071
 Phone: (770) 495-9554
 Fax: (404) 521-4396
 Email: sales@hansonco.net

Emergency telephone number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 4
Carcinogenicity	Category 2
Chronic aquatic toxicity	Category 1
Acute aquatic toxicity	Category 1

Label elements

Emergency Overview

Signal Word
Warning

Hazard statements
 Harmful if swallowed
 Suspected of causing cancer

Very toxic to aquatic life with long lasting effects

**Appearance**

Clear Dark

Physical State

Liquid

Odor

No information available

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
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Benzenamine, 4,4'- Methylenebis(2-Ethyl-; 4,4'- Diamino-3,3'- Diethyl-Diphenylmethane

Formula C17H22N2

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-	19900-65-3	100	True

4. FIRST AID MEASURES

First Aid Measures**General Advice**

Immediate medical attention is not required. Show this safety data sheet to the doctor in attendance.

Eye Contact

Immediate medical attention is not required. Rinse thoroughly with plenty of water, also under the eyelids. Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

Skin Contact	If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with plenty of water.
Inhalation	Immediate medical attention is not required. Remove to fresh air.
Ingestion	Immediate medical attention is not required. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Drink 1 or 2 glasses of water.
Self-Protection of the First Aider	Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u>	Water spray. Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical.
<u>Unsuitable Extinguishing Media</u>	No information available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	Not available
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours.

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. In the event of fire, wear self contained breathing apparatus. Use personal protective equipment as required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

Methods and material for containment and cleaning up

Methods for Clean-up	Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water. Soak up with inert absorbent material. Prevent product from entering drains.
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7. HANDLING AND STORAGE

Precautions for safe handling

Handling Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated exposure. Wear personal protective equipment. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities

Storage Keep in a dry place. Keep container tightly closed in a dry and well-ventilated place.

Incompatible Materials Carbon Monoxide. Carbon Dioxide. Nitrogen Oxides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- 19900-65-3	-	-	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin and body protection Use suitable eye protection and gloves.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Clear Dark
Physical State Liquid
Odor No information available
Odor Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No Data Available	
Melting point / Freezing point	44.7 - 45.7 °C	Literary Reference
Boiling point / boiling range	No information available	
Flash Point	240 °C	Open cup
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air	No information available	
Upper flammability limit	No information available	
Lower flammability limit	Not available	

Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	1.05 g/mL @ 25°C	
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temperature °C	No Data Available	Estimated
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	254.38 g/mol
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available
Corrosion characteristics	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under normal conditions
Hazardous Polymerization	Hazardous polymerization does not occur
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Carbon Monoxide. Carbon Dioxide. Nitrogen Oxides.
Hazardous Decomposition Products	Oxidizing Agents.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information or data specific to the product on this toxicological (health) effect is available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL -	-	-	-

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

Information on likely routes of exposure

Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	Harmful in contact with skin. Avoid contact with skin.
Inhalation	Harmful by inhalation. Avoid breathing vapors or mists.
Ingestion	Harmful if swallowed. Do not take internally.

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Carcinogenicity** Limited evidence of a carcinogenic effect.

Chemical name	ACGIH	IARC	NTP	OSHA
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- YL- 19900-65-3	-	-	-	-

Serious eye damage/irritation No information available.**Skin Corrosion/Irritation** No information available.**Sensitization** No information available.**Reproductive Effects** No information available.**Mutagenic Effects** No information available.**Developmental Effects** No information available.**STOT - single exposure** May cause respiratory irritation.**STOT - Repeated Exposure** No information available.**Chronic Toxicity** Avoid repeated exposure.**Aspiration Hazard** No information available.**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects
 Avoid release to the environment

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- YL- 19900-65-3	-	-	-	-

Persistence/Degradability No information available.**Bioaccumulation/Accumulation** Does not bioaccumulate.**Mobility in Soil** No information available.

Chemical name	log Pow =
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- 19900-65-3	-

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods	Can be incinerated, when in compliance with local regulations. Can be disposed as waste water, when in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.
Contaminated Packaging	Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-]), 9, III, Marine pollutant
Emergency Response Guide Number	171

TDG

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-]), 9, III, Marine pollutant

MEX

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-]), 9, III, Marine pollutant

ICAO

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-]), 9, III, Marine pollutant

IATA

UN number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-]), 9, III, Marine pollutant

IMDG

UN number	UN3082
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Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es) 9
Packing Group III
EmS No. F-A, S-F
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-], 9, III, Marine pollutant

RID

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es) 9
Packing Group III
Classification Code M6
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-], 9, III, Marine pollutant
ADR/RID-Labels 9

ADR

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Hazard Class 9
Packing Group III
Classification Code M6
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-], 9, III, Marine pollutant
Labels 9

ADN

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es) 9
Packing Group III
Classification Code M6
Special Provisions 274, 335, 375, 601
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-], 9, III, Marine pollutant
Hazard label(s) 9
Limited Quantity 5 L
Equipment Requirements PP

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
Canada (DSL) Complies
EU (EINECS) Complies
EU (ELINCS) Does not comply
Japan (ENCS) Complies
China (IECSC) Complies
Korea (KECL) Complies
Philippines (PICCS) Complies
Australia (AICS) Complies
Mexico INV Does not comply
Taiwan INV Complies

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-	Present	Present	X	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
-	Present (4)-863	Present	Present	Present	Present
Chemical name	Mexico INV		Taiwan INV		
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-	-		Present		

19900-65-3		
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Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

VOC content

This Product does not contain any VOCs

CWA (Clean Water Act)

This product does not contain any substances regulated as 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
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- 19900-65-3	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	CERCLA/SARA Hazardous Substances	CERCLA/SARA RQ	RQ
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- 19900-65-3	-	-	-

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

Chemical name	New Jersey	Massachusetts	Illinois	Rhode Island	Pennsylvania
BENZENAMINE, 4,4'-METHYLENEBIS[2-E THYL- 19900-65-3	-	-	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

NFPA

Health 3

Flammability 1

Instability 0

Physical Hazard *

**Issuing Date**

01-Aug-2013

Revision Date

06-Mar-2023

Not available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet