



# SAFETY DATA SHEET

Issuing Date 01-Aug-2013

Revision Date 28-Mar-2017

Revision Number 2

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

### Product Identifier

Product Name **H-614**

### 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** Avoid contact with food. Avoid prolonged contact with eyes, skin, and clothing.

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

**Supplier Address** ACETO CORPORATION  
4 Tri Harbor Court  
Port Washington, NY 11050-4661  
Phone: (516) 627-6000  
Fax: (516) 627-6093  
Email: aceto@aceto.com

### 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
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

### Label elements

### Emergency Overview

**Signal Word****Warning****Hazard statements**

Harmful if swallowed  
 Harmful in contact with skin  
 Harmful if inhaled  
 Causes skin irritation  
 Causes serious eye irritation  
 Suspected of causing cancer  
 May cause respiratory irritation. May cause drowsiness or dizziness  
 Very toxic to aquatic life with long lasting effects Avoid release to the environment

**Appearance**

Light yellow to Brown Oily

**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  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wear eye/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 Specific treatment (see supplemental first aid instructions on this label)  
 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  
 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  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**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

**Suitable Extinguishing Media** Water spray. Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable Extinguishing Media** No information available.

**Hazardous Combustion Products** Thermal decomposition or combustion may produce hazardous gases and/or materials.

**Explosion Data** 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**

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

**Methods and material for containment and cleaning up**

<b>Methods for Clean-up</b>	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**

<b>Handling</b>	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.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage</b>	Keep in a dry place. Keep container tightly closed in a dry and well-ventilated place.
<b>Incompatible Materials</b>	Strong Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL- 19900-65-3	-	-	-

**Appropriate engineering controls**

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Tight sealing safety goggles.
<b>Skin and body protection</b>	Use suitable eye protection and gloves.
<b>Respiratory Protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>General Hygiene Considerations</b>	General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Appearance</b>	Light yellow to Brown Oily
<b>Physical State</b>	Liquid
<b>Odor</b>	No information available
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	
<b>Melting point / Freezing point</b>	No data available	Literary Reference
<b>Boiling point / boiling range</b>	426 °C	
<b>Flash Point</b>	253 °C	Open cup
<b>Evaporation Rate</b>		
<b>Flammability (solid, gas)</b>		
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	Not available	
<b>Vapor Pressure</b>	No information available	
<b>Vapor Density</b>	Not available	
<b>Specific Gravity</b>	1.05 g/mL@25°C	
<b>Water Solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	Not available	
<b>Autoignition temperature °C</b>	No data available	Estimated
<b>Decomposition temperature</b>	No data available	
<b>Kinematic Viscosity</b>	No information available	
<b>Dynamic Viscosity</b>	Not available	
<b>Explosive Properties</b>	No information available	
<b>Oxidizing Properties</b>	No information available	

**Other Information**

<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	254.38 g/mol
<b>VOC content</b>	No information available
<b>Density</b>	No information available
<b>Bulk Density</b>	No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	Not applicable.
<b>Chemical Stability</b>	Stable under normal conditions
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur
<b>Conditions to Avoid</b>	Heat, flames and sparks.
<b>Incompatible Materials</b>	Strong Acids.
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

**11. TOXICOLOGICAL INFORMATION**

<b>Product Information</b>	Harmful if swallowed Harmful by inhalation Harmful by skin contact
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The following values are calculated based on chapter 3.1 of the GHS document .

<b>ATEmix (oral)</b>	500 mg/kg
<b>ATEmix (dermal)</b>	1100 mg/kg

**Information on likely routes of exposure**

<b>Eyes</b>	Contact with eyes may cause irritation. Avoid contact with eyes.
<b>Skin</b>	May be harmful by skin contact. Substance may cause slight skin irritation. Avoid contact with skin.
<b>Inhalation</b>	May be harmful if inhaled. May cause irritation of the mucous membranes. May cause irritation of respiratory tract.
<b>Ingestion</b>	Harmful if swallowed.

**Information on toxicological effects**

**Symptoms** No information available.

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

<b>Carcinogenicity</b>	Limited evidence of a carcinogenic effect.
<b>Serious eye damage/irritation</b>	No information available.
<b>Skin Corrosion/Irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Reproductive Effects</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Developmental Effects</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Chronic Toxicity</b>	Avoid repeated exposure. Limited evidence of a carcinogenic effect.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity - Product Information**

**ATEmix (inhalation-dust/mist)** 1.5 mg/L

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity**

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

<b>Persistence/Degradability</b>	No information available.
<b>Bioaccumulation/Accumulation</b>	Does not bioaccumulate.
<b>Mobility in Soil</b>	No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Disposal Methods</b>	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.
<b>Contaminated Packaging</b>	Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

#### DOT

<b>UN-No</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-], 9, PG III
<b>Emergency Response Guide Number</b>	171

#### TDG

<b>UN-No</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s
<b>Hazard Class</b>	9
<b>Packing Group</b>	III

#### MEX

<b>UN-No</b>	UN3082
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III

#### ICAO

<b>UN-No</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	Environmentally hazardous substance, liquid, n.o.s.*(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,UN3082,PG III Environmentally hazardous substance, liquid, n.o.s.*(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,UN3082,PG III

#### IATA

<b>UN-No</b>	UN3082
<b>Hazard Class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	Environmentally hazardous substance, liquid, n.o.s.*(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,PG III Environmentally hazardous substance, liquid, n.o.s.*(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,PG III

#### IMDG/IMO

<b>UN-No</b>	UN3082
<b>Hazard Class</b>	9

**Packing Group** III  
**EmS No.** F-A, S-F  
**Description** Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,PG III

**RID**

**UN-No** UN3082  
**Hazard Class** 9  
**Packing Group** III  
**Classification Code** M6  
**Description** Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III,RID Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III,RID  
**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** Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III,ADR  
**ADR/RID-Labels** 9

**ADN**

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.  
**Hazard Class** 9  
**Packing Group** III  
**Classification Code** M6  
**Special Provisions** 274, 601  
**Description** Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III Environmentally hazardous substance, liquid, n.o.s.(BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-],9,III  
**Hazard Labels** 9  
**Limited Quantity** LQ7  
**Equipment Requirements** PP

<b>15. REGULATORY INFORMATION</b>
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*International Inventories*

**U.S.A. (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

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-]	Present	Present	Present	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-] L- 19900-65-3 ( 100 )	Present (4)-863	Present	Present	Present	Present
Chemical Name	Mexico INV		Taiwan INV		
BENZENAMINE, 4,4'-METHYLENEBIS[2-ETHYL-] 19900-65-3	-		-		



## *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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### **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)

### **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

## *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.

### **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 Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**NFPA****Health 3****Flammability 1****Instability 0****Physical Hazard \*****Issuing Date**

01-Aug-2013

**Revision Date**

28-Mar-2017

**Revision Summary**

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**