

# DM Healthcare Products, Inc.

## Safety Data Sheet

Product: DHEPT - Distilled  
MSDS ID: H1332

Revised Date: 01/01/19  
Replaces Date: 08/04/16

### 1. General Information

Product Code: H1332  
Trade Name(s): DHEPT - Distilled  
Product Type: Purified Dihydroxyethyl-p-Toluidine  
Recommended Use:  
Restrictions: None identified

Company: DM Healthcare Products, Inc.  
10080 Willow Creek Rd.  
San Diego, CA 92131  
Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):  
US Domestic (800) 535-5053 (INFOTRAC) Includes Canada and Mexico  
International +1 (352) 323-3500  
China Specific (86) 400-120-0761  
Germany Specific (49) 0800-181-2924  
Australia Specific (61) 1-300-366-961

### 2. Hazards Identification

**HAZCOM Standard Status:** This material is considered hazardous by the OSHA Hazard Communication Standard 29 CFR 19410.1200)

**Physical State:** Solid

**Color:** White

**GHS Classification:** Acute toxicity, Oral (Category 4)  
Skin Irritation (Category 2)  
Eye irritation (Category 2A)  
Specific target organ toxicity - single exposure (Category 3), Respiratory system  
Acute aquatic toxicity (Category 3)  
Chronic aquatic toxicity (Category 3)

#### GHS Label Elements, including precautionary statements:



Signal Word: **Danger**

H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation  
H335: May cause respiratory irritation  
H412: Harmful to aquatic life

P261 Avoid breathing dust/fume/gas/mist/vapor/spray  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

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P280c: Wear protective gloves/protective clothing.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P3304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P280d: Wear protective gloves.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.

### POTENTIAL HEALTH EFFECTS:

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.  
**EYE CONTACT:** Causes eye irritation  
**SKIN CONTACT:** Harmful if absorbed through skin. Causes skin irritation.  
**SWALLOWING:** Harmful if swallowed.

## 3. Composition Information

**Synonyms:** DHEPT, R1332  
N, N - Dihydroxyethyl-p-Toluidine

COMPONENT	CAS#	CONCENTRATION
2,2'[(-Methylphenyl)imino]bisethanol	3077-12-1	~ 100%

## 4. First Aid Measures

### GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If swallowed:

Do not induce vomiting. Give person large amounts of water. Get immediate medical attention.

### In case of skin contact:

Wash area with soap and water. Consult a physician.

### If inhaled:

Remove person to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### In case of eye contact:

Flush with water for 15 minutes as a precaution.

## 5. Fire and Explosion Hazard Data

### Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

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### **Hazardous combustion products:**

Hazardous combustion products formed under fire conditions. Nature of decomposition products not known.

## **6. Accidental Release Measures**

### **Personal Precautions:**

Wear personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **Methods and materials for containment and cleaning up:**

Pick-up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## **7. Handling and Storage**

### **Precautions for safe handling:**

Avoid contact with skin eyes. Avoid formation of dust and aerosols. Keep container closed. Store under argon.

Air and moisture sensitive.

### **Conditions for safe storage:**

Store at room temperature away from light and incompatible materials identified in the *Stability and Reactivity Section*.

## **8. Exposure Controls and Personal Protection Measures**

Contains no substances with occupational exposure limit values

### **Personal protective equipment:**

#### **Respiratory protection:**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Hand protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.

#### **Eye protection:**

Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

#### **Skin and body protection:**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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### 9. Physical / Chemical Characteristics

#### Appearance:

Physical State:	Solid. [solidified melt]
Color:	White to light yellow
Odor:	no data available
Odor threshold:	no data available

#### Other properties:

pH:	8.8 [Conc. (% w/w): 10%]
Melting Point:	40 - 53°C
Boiling Point:	338 - 340°C (640 - 644°F)
Flash Point:	113°C (235°F) closed cup
Density:	1.09 g/cm <sup>3</sup>
Ignition temperature	410°C
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor Pressure:	no data available
Specific Gravity (H <sub>2</sub> O=1):	no data available
Solubility in water:	5.4g/l
n-Octanol/water partition coefficient:	log Pow 0.943
Evaporation rate (BuAc=1):	no data available
Percent volatile (weight):	no data available
Percent volatile (volume):	no data available
Volatile organic content:	no data available

### 10. Reactivity Hazard Data

#### Chemical stability:

Stable under recommended storage conditions.

#### Conditions to avoid:

Elevated temperatures in the presence of initiators

#### Materials to avoid:

Strong oxidizing, strong reducers, free radical initiators, inert gases, oxygen scavengers.

#### Hazardous decomposition products:

Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.

#### Possibility of hazardous reactions:

No data available.

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### 11. Toxicological Information

#### Information on the likely routes of exposure:

Dermal contact. Eye contact. Inhalation. Ingestion.

#### Potential acute health effects

##### Eye contact:

Causes serious eye damage.

##### Inhalation:

May cause respiratory irritation. May cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen.

##### Skin contact:

May cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen.

##### Ingestion:

Harmful if swallowed. May cause burns to mouth, throat and stomach. May cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen.

#### Symptoms related to the physical, chemical and toxicological characteristics

##### Eye contact:

Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.

##### Inhalation:

A symptom of methemoglobin formation may be cyanosis (purplish-blue coloring of the skin, fingernails, and lips). May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

##### Skin contact:

No specific data.

##### Ingestion:

Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea. A symptom of methemoglobin formation may be cyanosis (purplish-blue coloring of the skin, fingernails, and lips).

#### Potential chronic health effects

##### Short term exposure:

Potential immediate effects: Not available.

##### Long term exposure

Potential delayed effects: Not available.

##### General:

Carcinogenicity :	No known significant effects or critical hazards.
Mutagenicity :	No known significant effects or critical hazards.
Teratogenicity :	No known significant effects or critical hazards.
Developmental effects :	No known significant effects or critical hazards.
Fertility effects :	No known significant effects or critical hazards.

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### Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Test
2,2'-((4-methylphenyl)imino)bis-ethanol	LD50 Oral	Rat - Male, Female	960 mg/kg	-	-

### Irritation/Corrosion Conclusion/Summary

Skin : Non-irritating: tested on rabbits  
Eyes : Risk of serious damage to eyes.

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
2,2'-((4-methylphenyl)imino)bis-ethanol	Ames test	Experiment: In Vitro Subject: Bacteria	Negative

### Carcinogenicity

Product/ingredient name	CAS #	IARC	NTP	OSHA
2,2'-((4-methylphenyl)imino)bis-ethanol	3077-12-1	Not classified.	Not classified.	Not classified.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2,2'-((4-methylphenyl)imino)bis-ethanol	Category 3	Not applicable.	Respiratory Tract irritation

## 12. Ecological Information

### Toxicity

Product/ingredient name	Test	Result	Species	Exposure
2,2'-((4-methylphenyl)imino)bis-ethanol	-	Acute EC50 >500 mg/l	Bacteria- Pseudomonas putida	0.5 hours
	-	Acute LC50>100mg/l	Fish-Danio rerio	96 hours

*Conclusion/Summary* : Not available.

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2,2'-((4-methylphenyl)imino)bis-ethanol	OECD 301D	49 % - 28 days	-	Adapted and activated sludge micro-organism

*Conclusion/Summary* : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2,2'-((4-methylphenyl)imino)bis-ethanol	-	50%; 0.026 day(s)	Not readily

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### Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2'-((4-methylphenyl)imino)bis-ethanol	1.09	-	Low
2,2'-((4-methylphenyl)imino)bis-ethanol	1.09	-	Low

### Mobility in soil

Soil/water partition coefficient (KOC): Not available.

Other adverse effects: No known significant effects or critical hazards.

## 13. Disposal Considerations

### Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging:

Dispose of as unused product.

## 14. Transport Information

### DOT (US):

Not dangerous goods

### IMDG:

Not dangerous goods

### IATA:

Not dangerous goods

## 15. Regulatory Information

**SARA 311/312:** Immediate (acute) health hazard

### SARA Title III Section 302 Extremely Hazardous Substances

Ingredient name	CAS number	Concentration(%)
2,2'-((4-methylphenyl)imino)bis-ethanol	3077-12-1	100

**SARA Title III Section 313 Toxic Chemicals:** None

**US EPA CERCLA Hazardous Substances (40 CFR 302.4):** None

### State regulations

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections on the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

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Ingredient name	CAS number	State Code	Concentration(%)
2,2'-((4-methylphenyl)imino)bis-ethanol	3077-12-1		100

Massachusetts Substances: MA - S

Massachusetts Extraordinary Hazardous Substances: MA - Extra HS

New Jersey Hazardous Substances: NJ - HS

Pennsylvania RTK Hazardous Substances: PA - RTK HS

Pennsylvania Special Hazardous Substances: PA - Special HS

### California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

**U.S. Toxic Substances Control Act:** Listed on the TSCA Inventory.

## 16. Other Information

Hazardous Material Information System : Health 2  
Flammability 1  
Physical Hazards 0  
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme  
\*=chronic

The customer is responsible for determining the PPE code for this material. HMIS® ratings are to be used with a fully implement HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA), HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The opinions expressed herein are those of qualified experts within DM Healthcare Products, Inc. We believe that the information contained herein is current, as of the date of this SDS. Because the use of this information and of these opinions, and the conditions of use of this product, are not within the control of DM Healthcare Products, Inc., it is the user's legal obligation to determine the conditions of safe use of this product.