SECTION 1: Identification

1.1. Identification
Product form : Mixture
Product name : DMP-30
Product code : 00553

1.2. Recommended use and restrictions on use
Recommended use : Use as laboratory reagent, Manufacture of substances

1.3. Supplier
Supplier
Polysciences
400 Valley Road
Warrington, PA 18976 - United States
T +1 215 343 6484 - F +1 215 343 0214
info@polysciences.com - www.polysciences.com

1.4. Emergency telephone number
Emergency number : +1 215 378 4526

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture
GHS-US classification
Acute toxicity (oral) : H302 - Harmful if swallowed
Category 4
Acute toxicity (dermal) : H312 - Harmful in contact with skin
Category 4
Skin corrosion/irritation : H315 - Causes skin irritation
Category 2
Serious eye damage/eye irritation Category 2 : H319 - Causes serious eye irritation
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements
GHS-US labeling
Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) :
H302+H312 - Harmful if swallowed or in contact with skin
H315 - Causes skin irritation
H319 - Causes serious eye irritation
Precautionary statements (GHS-US) :
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell
P302+P352 - If on skin: Wash with plenty of water
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a poison center or doctor if you feel unwell
P321 - Specific treatment (see supplemental first aid instruction on this label)
P322 - Specific treatment (see supplemental first aid instruction on this label)
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
**DMP-30**  
Safety Data Sheet  
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

**SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
| 2,4,6-tris(dimethylaminomethyl)phenol | (CAS No) 90-72-2 | < 90 | Acute Tox. 4 (Oral), H302  
Acute Tox. 4 (Dermal), H312  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319 |
| Bis[(dimethylamino)methyl]phenol | (CAS No) 71074-89-0 | < 15 | Acute Tox. 4 (Oral), H302  
Acute Tox. 4 (Dermal), H312  
Skin Irrit. 2, H315  
Eye Irrit. 2, H319 |

Full text of hazard classes and H-statements : see section 16

**SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general: Call a poison center/doctor/physician if you feel unwell.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact: 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.

First-aid measures after ingestion: Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact: Irritation.

Symptoms/effects after eye contact: Eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media


#### 5.2. Specific hazards arising from the chemical

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin, eyes and clothing.

##### 6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment.
Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Control parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Bis[(dimethylamino)methyl]phenol (71074-89-0)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls: Ensure good ventilation of the work station.
Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment
Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Mixture contains one or more component(s) which have the following colour(s): light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Amine-like</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
DMP-30
Safety Data Sheet

Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity:
Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.

DMP-30
ATE US (oral) 952.381 mg/kg body weight
ATE US (dermal) 1191.201 mg/kg body weight

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

LD50 oral rat 1200 mg/kg
LD50 dermal rat 1280 mg/kg
ATE US (oral) 1200 mg/kg body weight
ATE US (dermal) 1280 mg/kg body weight

Bis[dimethylamino)methyl]phenol (71074-89-0)

ATE US (oral) 500 mg/kg body weight
ATE US (dermal) 1100 mg/kg body weight

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitization: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity – single exposure: Not classified
Specific target organ toxicity – repeated exposure: Not classified

Aspiration hazard: Not classified

Symptoms/effects after skin contact: Irritation.

Symptoms/effects after eye contact: Eye irritation.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

**SECTION 14: Transport information**

**Department of Transportation (DOT)**

In accordance with DOT

- Transport document description: UN2735 Amines, liquid, corrosive, n.o.s., 8, III
- UN-No.(DOT): UN2735
- Proper Shipping Name (DOT): Amines, liquid, corrosive, n.o.s.
- Class (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136
- Packing group (DOT): III - Minor Danger
- Hazard labels (DOT): 8 - Corrosive

- DOT Packaging Non Bulk (49 CFR 173.xxx): 203
- DOT Packaging Bulk (49 CFR 173.xxx): 241
- DOT Symbols: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)

- IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
- T7 - 4 178.274(d)(2) Normal............. 178.275(d)(3)
- TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
- TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx)

- 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)

- 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)

- 60 L

DOT Vessel Stowage Location

- A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other

- 52 - Stow “separated from” acids

Emergency Response Guide (ERG) Number

- 153

Other information

- No supplementary information available.

TDG

Not applicable

Transport by sea

Transport document description (IMDG)

- UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, III

UN-No. (IMDG)

- 2735

Proper Shipping Name (IMDG)

- AMINES, LIQUID, CORROSIVE, N.O.S.

Class (IMDG)

- 8 - Corrosive substances

Packing group (IMDG)

- III - substances presenting low danger

Air transport

Transport document description (IATA)

- UN 2735 Amines, liquid, corrosive, n.o.s., 8, III

UN-No. (IATA)

- 2735

Proper Shipping Name (IATA)

- Amines, liquid, corrosive, n.o.s.

Class (IATA)

- 8 - Corrosives

Packing group (IATA)

- III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

- Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

- Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Bis[(dimethylamino)methyl]phenol (71074-89-0)

- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
National regulations

### 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)
- Listed on the AICS (Australian Inventory of Chemical Substances)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on the Korean ECL (Existing Chemicals List)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on INSC (Mexican National Inventory of Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### Bis[(dimethylamino)methyl]phenol (71074-89-0)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

### 15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

- **H302** Harmful if swallowed
- **H312** Harmful in contact with skin
- **H315** Causes skin irritation
- **H319** Causes serious eye irritation

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*