SAFETY DATA SHEET
Dimetoxypropanol (DPM)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued: 15.11.2013

1.1. Product identifier

Product name: Dimetoxypropanol (DPM)
Chemical name: Dipropylene glykol methyl ether
REACH Reg No.: 01-2119450011-0000
CAS no.: 34590-94-8
EC no.: 252-104-2
Article no.: 17400000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation: Lösningsmedel (Solvent).

1.3. Details of the supplier of the safety data sheet

Manufacturer
Company name: Fred Holmberg & Co AB
Office address: Geijersgatan 8
Postal address: Box 60056
Postcode: S-216 10
City: Limhamn
Country: Sweden
Tel: +46 (0)40 15 79 20
Fax: +46 (0)40 16 22 95
E-mail: info@holmberg.se
Website: http://www.holmberg.se/en/

1.4. Emergency telephone number

Emergency telephone: 112 (Europe)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification notes: Ej farligt ämne eller blandning enligt Direktiv 67/548/EEG.
Not classified/subject to labelling according to 67/548/EEC.

Classification notes CLP: Ej farligt ämne eller blandning enligt regelverket (EG) nr 1272/2008.
Not classified/subject to labelling according to (EC) No 1272/2008 [CLP/GHS].

2.2. Label elements

2.3. Other hazards

Other hazards: Not known.

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimetoxypropanol (DPM)</td>
<td>CAS no.: 34590-94-8</td>
<td>EC no.: 252-104-2</td>
<td>&gt; 99 %</td>
</tr>
</tbody>
</table>

Column headings: CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) =
European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in: %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%

HH/HF/HE
T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard

SECTION 4: First aid measures

4.1. Description of first aid measures

**Inhalation**
Move the exposed person to fresh air at once. Get medical attention.

**Skin contact**
Remove contaminated clothing immediately and wash skin with soap and water.

**Eye contact**
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

**Ingestion**
Rinse mouth with water. Drink plenty of water. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel
Treat symptomatically.

Acute symptoms and effects
No recommendation given.

Delayed symptoms and effects
No recommendation given.

4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes
No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Fire fighting procedures
No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures
Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.

6.2. Environmental precautions

Environmental precautionary measures
Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Cleaning method
Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Other instructions
No recommendation given.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling
Mechanical ventilation may be required. Observe good industrial hygiene practices.
**Protective Safety Measures**

**Safety Measures To Prevent fire**
Take precautionary measures against static discharge. Keep away from heat / sparks / open flames / hot surfaces. — No smoking.

**Advice on general occupational hygiene**
Provide easy access to water supply and eye wash facilities.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage**
Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep container tightly closed. Do not allow contact with air. Prolonged contact with air may cause formation of explosive peroxides. Protect from moisture.

### 7.3. Specific end use(s)

**Specific use(s)**
Not entered.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure limit values

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Value</th>
<th>TWA Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimetoxypropanol (DPM)</td>
<td>CAS no.: 34590-94-8</td>
<td>65 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EC no.: 252-104-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Information about threshold limit values</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Norske grenseverdier; FOR-2011-12-06-1358 vedlegg 1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-metoksymetyletoksy)-propanol : 8 t.: 50ppm, 300 mg/m3 anm. H (2003)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DNEL / PNEC

**Method of testing**

<table>
<thead>
<tr>
<th>DNEL</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group: Worker</td>
<td>Exposure route: Dermal</td>
</tr>
<tr>
<td></td>
<td>Exposure frequency: Long term (repeated)</td>
</tr>
<tr>
<td></td>
<td>Type of effect: Systemic effect</td>
</tr>
<tr>
<td></td>
<td>Value: 65 mg/kg</td>
</tr>
<tr>
<td>DNEL</td>
<td>Group: Worker</td>
</tr>
<tr>
<td></td>
<td>Exposure route: Inhalation</td>
</tr>
<tr>
<td></td>
<td>Exposure frequency: Long term (repeated)</td>
</tr>
<tr>
<td></td>
<td>Type of effect: Systemic effect</td>
</tr>
<tr>
<td></td>
<td>Value: 310 mg/m3</td>
</tr>
<tr>
<td>DNEL</td>
<td>Group: Consumer</td>
</tr>
<tr>
<td></td>
<td>Exposure route: Dermal</td>
</tr>
<tr>
<td></td>
<td>Exposure frequency: Long term (repeated)</td>
</tr>
<tr>
<td></td>
<td>Type of effect: Systemic effect</td>
</tr>
<tr>
<td></td>
<td>Value: 15 mg/kg</td>
</tr>
<tr>
<td>DNEL</td>
<td>Group: Consumer</td>
</tr>
<tr>
<td></td>
<td>Exposure route: Inhalation</td>
</tr>
<tr>
<td></td>
<td>Exposure frequency: Long term (repeated)</td>
</tr>
<tr>
<td></td>
<td>Type of effect: Systemic effect</td>
</tr>
<tr>
<td></td>
<td>Value: 37,2 mg/m3</td>
</tr>
<tr>
<td>DNEL</td>
<td>Group: Consumer</td>
</tr>
<tr>
<td></td>
<td>Exposure route: Oral</td>
</tr>
<tr>
<td></td>
<td>Exposure frequency: Long term (repeated)</td>
</tr>
<tr>
<td></td>
<td>Type of effect: Systemic effect</td>
</tr>
<tr>
<td></td>
<td>Value: 1,67 mg/kg</td>
</tr>
<tr>
<td>PNEC</td>
<td>Exposure route: Sediment</td>
</tr>
<tr>
<td></td>
<td>Value: 7,02 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Remarks: Saltvatten (Marine water).</td>
</tr>
<tr>
<td>PNEC</td>
<td>Exposure route: Water</td>
</tr>
<tr>
<td></td>
<td>Value: 19 mg/l</td>
</tr>
<tr>
<td></td>
<td>Remarks: Sötvatten (Freshwater).</td>
</tr>
</tbody>
</table>
PNEC
Exposure route: Soil
Value: 2.74 mg/kg

PNEC
Exposure route: Water
Value: 1.9 mg/l
Remarks: Saltvatten (Marine water).

PNEC
Value: 190 mg/l
Remarks: Sporadisk frisläppning (sporadic release).

PNEC
Exposure route: Sewage treatment plant STP
Value: 4168 mg/l

PNEC
Exposure route: Sediment
Value: 70.2 mg/kg
Remarks: Sötvatten (Freshwater).

Exposure guidelines
Country of origin: Sverige
Limit value type: KTV
OEL Short Term Value: 450 mg/m3
Source: Nationella hygieniska gränsvärden, AFS 2011:18

Other Information
NGV värde 300 mg/m3 ; 50 ppm (SE)

8.2. Exposure controls
Occupational exposure limits
Well-ventilated area. Protective gloves and goggles are recommended. Provide eyewash, quick drench.

Safety signs

Respiratory protection
Suitable respiratory protection must be used at high concentrations. If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with gas filter, type A2.

Hand protection
Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection
Use safety goggles or face shield in case of splash risk.

Skin protection
Skin protection (except hands)
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental
Specific hygiene measures
Wash hands after contact.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colourless liquid.
Colour Colourless.
Odour Mild.

pH (as supplied) Value: 7

Melting point/melting range Value: -80 °C
Method of testing: Literature.

Boiling point / boiling range Value: 180-190 °C
Method of testing: DIN 53171 (1.013 mbar)

Flash point Value: 75 °C
Method of testing: (closed cup)

Vapour pressure Value: 0.7 mbar
Method of testing: DIN 51794
Dimetoxypropanol (DPM)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>Value: 950 kg/m³</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Blandbar (miscible)</td>
</tr>
<tr>
<td>Comments, Solubility</td>
<td>Löslig i organiska lösningsmedel (soluble in organic solvents).</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Value: 0.004</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Method of testing: OECD-riktlinje 107 (pH-värde: 7,5-7,7)</td>
</tr>
<tr>
<td>Spontaneous combustability</td>
<td>Value: 270 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Value: 4.32 mPa/s</td>
</tr>
</tbody>
</table>

**9.2. Other information**

**SECTION 10: Stability and reactivity**

10.1. Reactivity

Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Toxicological Information:

Other toxicological data

Acute Toxicity (Oral LD₅₀): mg/kg (oral rat) > 5000
Acute Toxicity (Dermal LD₅₀): > 13000 - 14000 mg/kg Rabbit

Potential acute effects

Inhalation

Icke klassificerad som aspirationstoxisk (Not classified as asp. tox.)

Skin contact

Not Irritating.

Eye contact

Not Irritating.

Delayed effects / repeated exposure

Sensitisation

Not known.

Chronic effects

None known.

STOT-single exposure

Not known.

STOT-repeated exposure

Not known.

Carcinogenic, Mutagenic or Reprotoxic

Carcinogenicity

Not known.

Mutagenicity

Not known.

Teratogenic properties

Not known.

Reproductive toxicity

Not known.

**SECTION 12: Ecological information**

12.1. Toxicity

Acute aquatic, fish

Value: > 1000 mg/l

Method of testing: LC₅₀
Fish, species: Poecilia reticulata  
Duration: 96h  
Test reference: OECD 203; ISO 7346; 84/449/EEG, C.1

Acute aquatic, algae  
Value: 969 mg/l  
Method of testing: EC50  
Algae, species: Pseudokirchneriella subcapitata  
Duration: 96h  
Test reference: OECD Guideline 201

Acute aquatic, Daphnia  
Value: 1919 mg/l  
Method of testing: LC50  
Daphnia, species: Daphnia magna  
Duration: 48h  
Test reference: OPP 72-2

12.2. Persistence and degradability  
Persistence and degradability  
Lätt biologiskt nedbrytbar (Readily biodegradable).

Comments COD  
96 % (28 d)  
(OECD 301F; ISO 9408; 92/69/EEG, C.4-D)

12.3. Bioaccumulative potential  
Bioaccumulative potential  
Will not bio-accumulate.

12.4. Mobility in soil  
Mobility  
Data lacking.

Surface tension  
Value: 68.7 mN/m  
(20 °C; 1 g/l)

12.5. Results of PBT and vPvB assessment  
PBT assessment results  
This substance is not classified as PBT or vPvB.

12.6. Other adverse effects  
Other adverse effects / Remarks  
None known.

SECTION 13: Disposal considerations  
13.1. Waste treatment methods  
Specify the appropriate methods of disposal  
Confirm disposal procedures with environmental engineer and local regulations. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.

Product classified as hazardous waste  
No

Packaging classified as hazardous waste  
No

SECTION 14: Transport information  
14.1. UN number  
Comments  
Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group
14.5. Environmental hazards
14.6. Special precautions for user
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information
EC no. 252-104-2

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Other Label Information


Legislation and regulations

Dangerous Substance Directive 67/548/EEC.

15.2. Chemical safety assessment

SECTION 16: Other information

Responsible for safety data sheet

Fred Holmberg & Co AB