



# Safety Data Sheet

SDS has been prepared in accordance with Regulation (EC) No. 453/2010

**This Safety Data Sheet is written in reference to a sealed glass ampoule containing 10ml of the product named below.**

## Section 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Substance name:** Dimethyl phthalate

<b>Synonyms:</b> DIMP	<b>Product type:</b> Liquid density standard	<b>Date revised:</b> Jun 2022 <b>Previous:</b> Feb 2020
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<b>EC No:</b> 205-011-6	<b>CAS No.:</b> 131-11-3
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### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** For use in the calibration of density meters.

**Uses advised against:**

### 1.3 Details of the supplier of the Safety Data Sheet

**Company:** H&D Fitzgerald Ltd.  
**Address:** Cefn Du, Tremeirchion, St Asaph, Denbighshire, LL17 0US, UK  
**Telephone #:** +44 (0)1352 720 774  
**Email address:** admin@density.co.uk

### 1.4 Emergency telephone number

+44 (0)1352 720 774

## Section 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Not a hazardous substance or mixture.

### 2.2 Label elements

Not a hazardous substance or mixture.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
Rapidly absorbed through the skin.

## Section 3 Composition / Information on ingredients

**Substance name:** Dimethylphthalate

**Synonyms:** DMP

C.A.S. No.	EINECS No.	Index-No. in CLP Annex IV	Classification	Concentration
131-11-3	205-011-6	-	-	<=100%

**Formula:**  $C_{10}H_{10}O_4$

**Molecular Weight:** 194.18g/mol

## Section 4 First Aid measures

### 4.1 Description of first aid measures

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Following inhalation:</b>	Move the person into fresh air. If not breathing give artificial respiration. Consult a physician.
<b>Following ingestion:</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water and consult a physician without delay.
<b>Following eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.
<b>Following skin contact:</b>	Wash off with soap and plenty of water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

## Section 5 Fire fighting measures

<b>5.1 Extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>5.2 Special hazards arising from the substance or mixture</b>	Carbon oxides.
<b>5.3 Advice for firefighters</b>	Wear protective clothing and self contained breathing apparatus if necessary.
<b>5.4 Further information</b>	No data available.

## Section 6 Accidental release measures

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

<b>Protective equipment:</b>	Wear safety glasses with side shields and gloves.
<b>Personal precautions:</b>	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation

### 6.2 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.

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

Ventilate area.  
Soak up liquid with absorbent material and dispose of as hazardous waste.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

Section 8 and 13.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.  
Use personal protective equipment.  
Handle in accordance with good industrial hygiene and safety practise.

<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
<b>Storage precautions:</b>	Store ampoule in the outer packaging until ready to use. Store in a cool place (less than 25°C). Do not store the ampoule once opened, dispose of as hazardous waste.
<b>7.3 Specific end use(s)</b>	
<b>Recommendations:</b>	Liquid density standard for calibration of density meters.

<b>Section 8 Exposure controls and personal protection</b>				
<b>8.1 Control parameters</b>				
<b>Components with work place control parameters</b>				
<b>Components</b>	<b>CAS-No.</b>	<b>Value</b>	<b>Control Parameters</b>	<b>Basis</b>
Dimethyl phthalate	131-11-3	STEL	10 mg/m <sup>3</sup>	UK. EH40 Occupational Exposure Limits
		TWA	5 mg/m <sup>3</sup>	UK. EH40 Occupational Exposure Limits
<b>8.2 Exposure controls</b>				
<b>Personal protective equipment</b>				
<b>Eye/Face protection:</b>	Wear safety glasses with side shields conforming to EN166			
<b>Hand protection:</b>	Handle with gloves conforming to EN374			
<b>Other skin protection:</b>	Use of protective clothing is good industrial practise.			
<b>Respiratory protection:</b>	Use in a well ventilated area.			
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practise. Wash hands with soap before breaks and at the end of the workday.			
<b>Environmental exposure controls</b>				
Do not let product enter drains.				
Discharge into the environment must be avoided.				
Keep in suitable, closed containers for disposal.				
Dispose of as hazardous waste.				

<b>Section 9 Physical and chemical properties</b>			
<b>9.1 Information on basic physical and chemical properties</b>			
<b>Appearance:</b> Colourless, liquid	<b>Odour:</b> no data available	<b>Odour threshold:</b> no data available	<b>pH:</b> no data available
<b>Freezing point:</b> 2°C	<b>Boiling point &amp; range:</b> 282°C	<b>Flash point:</b> 146.0°C – closed cup	<b>Evaporation rate:</b> no data available
<b>Flammability:</b> no data available	<b>Upper/lower flammability or explosive limits:</b> no data available	<b>Vapour pressure:</b> 0.0020hPa at 20°C 1.3hPa at 100°C	<b>Vapour density:</b> no data available
<b>Density of liquid:</b> ≈1190 kgm <sup>-3</sup> at 25°C	<b>Solubility:</b> slightly soluble	<b>Partition coefficient: n-octanol/water</b> log Pow: 1.47	<b>Auto-ignition temperature:</b> 490°C
<b>Decomposition temperature:</b> no data available	<b>Viscosity:</b> no data available	<b>Explosive properties:</b> no data available	<b>Oxidising properties:</b> no data available
<b>9.2 Other information</b>	No data available.		

<b>Section 10 Stability and reactivity</b>	
<b>10.1 Reactivity</b>	No data available.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No data available.
<b>10.4 Conditions to avoid</b>	No data available.
<b>10.5 Incompatible materials</b>	Oxidizing agents, acids.
<b>10.6 Hazardous decomposition products</b>	Other decomposition products - No data available In the event of fire: see section 5

<b>Section 11 Toxicological information</b>	
<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity</b>	LD <sub>50</sub> Oral(rat): 8200 mg/kg. LD <sub>50</sub> Dermal(rabbit): >12,000 mg/kg
<b>Skin corrosion/irritation:</b>	Rabbit. Result: No skin irritation - 24 h (Draize Test)
<b>Serious eye damage/irritation:</b>	Rabbit. Result: No eye irritation - 72 h (OECD Test Guideline 405)
<b>Germ cell mutagenicity:</b>	Ames test. S. typhimurium. Result: negative. Rat - male. Result: negative
<b>Carcinogenicity:</b>	This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity:</b>	Reproductive toxicity - Rat - female - Oral No adverse effect has been observed in chronic toxicity tests. Developmental Toxicity - Rat - Oral No adverse effect has been observed in chronic toxicity tests.
<b>Specific target organ toxicity – single exposure:</b>	No data available
<b>Specific target organ toxicity – repeated exposure:</b>	No data available
<b>Aspiration hazard:</b>	No data available
<b>Additional information:</b>	RTECS: T11575000 Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, central nervous system depression, gastrointestinal disturbance, kidney injury may occur. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Section 12 Ecological information</b>	
Toxic to aquatic organisms. Ecological risk is limited in the quantity supplied in a 10ml ampoule.	
<b>12.1 Toxicity</b>	
<b>Toxicity to fish</b>	LC <sub>50</sub> – Pimephales promelas (fathead minnow) – 39 mg/l – 144 h Flow through test LC <sub>50</sub> – Pimephales promelas (fathead minnow) – 39 mg/l – 96 h

<b>Toxicity to daphnia and other aquatic invertebrates</b>	LC <sub>50</sub> – Daphnia magna (Water flea) – >52 mg/l – 48 h EC <sub>50</sub> – Daphnia magna (Water flea) – 46.00 mg/l – 48 h
<b>Toxicity to algae</b>	Static test EC <sub>50</sub> – Desmodesmus subspicatus (Scenedesmus subspicatus) – 204 mg/l - 72 h
<b>12.2 Persistence and degradability</b>	No data available.
<b>12.3 Bioaccumulative potential</b>	Lepomis macrochirus (Bluegill sunfish) – 21 d Bioconcentration factor (BCF): 57 (OECD Test Guideline 305)
<b>12.4 Mobility in soil</b>	No data available
<b>12.5 Results of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>12.6 Other adverse effects</b>	Harmful to aquatic life.

### Section 13 Disposal considerations

<b>13.1 Waste treatment methods</b>	
<b>General requirements:</b>	Offer surplus and non-recyclable solutions to a licensed disposal company. Observe all national and local environmental regulations.
<b>Contaminated packaging:</b>	Dispose of as unused product.

### Section 14 Transport information

Not classed as dangerous goods for transport.
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### Section 15 Regulatory information

<b>15.1 Safety health and environmental regulations/legislation specific for the substance or mixture</b>	This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010.
<b>15.2 Chemical safety assessment</b>	No chemical assessment has been carried out for this substance by the supplier.

### Section 16 Other information

<b>Reason for revision:</b>	Updated to comply with Regulation (EC) No. 453/2010.
<b>Disclaimer</b>	H&D Fitzgerald Ltd believes that data given here is accurate. It is derived from published information about dimethyl phthalate. No warranty, expressed or implied, is intended. The data is provided for your information and consideration when using dimethyl phthalate as a liquid density standard for the calibration of density meters. H&D Fitzgerald Ltd assumes no legal responsibility for its use.