

**Section 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

**Trade name or designation of the mixture** DIMETHYL TEREPHTHALATE - Vlissingen

**Registration number** -

**Synonyms** DIMETHYL 1,4-BENZENEDICARBOXYLATE; TEREPHTHALIC ACID, DIMETHYL ESTER DMT Pellets; DMT Flake; DMT Molten

**Date of first issue** 10-June-2011

**Version number** 1.0

**Revision date** 10-June-2011

**Supersedes date****Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Chemical intermediate.

**Uses advised against**

None known.

**Details of the supplier of the safety data sheet**

**Company name** INVISTA Polyester B.V.

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The Netherlands

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**Section 2: Hazards identification****Classification of the substance or mixture**

**Classification according to Directive 67/548/EEC or 1999/45/EC as amended**

**Classification according to Regulation (EC) No 1272/2008 as amended**

**Label elements****Label according to Regulation (EC) No. 1272/2008 as amended**

**Contains:** DIMETHYL TEREPHTHALATE

**Hazard statements** The substance does not meet the criteria for classification.

**Precautionary statements**

**Prevention** Not available.

**Response** Not available.

**Storage** Not available.

**Disposal** Not available.

**Supplemental label information**

Not applicable.

**Other hazards**

Not assigned.

**Section 3: Composition/information on ingredients****Mixture**

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
DIMETHYL TEREPHTHALATE	>99%	120-61-6 204-411-8	-	-	
<b>Classification:</b>	<b>DSD:</b> -				
	<b>CLP:</b> -				

## Composition comments

Not classified as a hazardous substance.

## Section 4: First aid measures

### General information

If you feel unwell, seek medical advice (show the label where possible).

### Description of first aid measures

#### Inhalation

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention immediately. If symptoms persist, get medical attention.

#### Skin contact

Wash off with soap and water. Get medical attention if irritation develops or persists.

In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily.

#### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

In case of contact with molten product, cool rapidly with water and seek immediate medical attention.

#### Ingestion

If ingested, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth thoroughly with water. Never give anything by mouth to a victim who is unconscious or is having convulsions. If material is ingested, immediately contact a physician or poison control centre.

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

Not available.

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

Not available.

## Section 5: Firefighting measures

### General fire hazards

Not available.

### Extinguishing media

#### Suitable extinguishing media

Small Fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Large Fires: Water spray, fog or regular foam.

#### Unsuitable extinguishing media

Do not use water jet.

### Special hazards arising from the substance or mixture

Dusts at sufficient concentrations can form explosive mixtures with air.

Do not use a solid water stream as it may scatter and spread fire.

### Advice for firefighters

#### Special protective equipment for firefighters

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Structural firefighters protective clothing will only provide limited protection.

#### Special firefighting procedures

Extinguish fires started by molten material by using appropriate method for the burning material. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, and face mask. Move containers from fire area if you can do it without risk. In the event of fire and/or explosion do not breathe fumes.

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Not available.

#### For emergency responders

Not available.

### Environmental precautions

Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Sweep up or gather material and place in appropriate container for disposal. Where possible allow molten material to solidify naturally. Avoid dust formation.

### Reference to other sections

Not available.

## Section 7: Handling and storage

### Precautions for safe handling

Handle and open container with care. Avoid dust formation. Use non-sparking tools when opening or closing containers. Molten material can cause burns. Handle molten material with care.

### Conditions for safe storage, including any incompatibilities

Use care in handling/storage.

### Specific end use(s)

Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

**Occupational exposure limits** No exposure limits noted for the ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### Recommended monitoring procedures

Not available.

**DNEL** Not available.

**PNEC** Not available.

### Exposure controls

#### Appropriate engineering controls

Keep formation of airborne dusts to a minimum. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Static charges created by dust generation in or near flammable vapours may cause flash fire.

#### Individual protection measures, such as personal protective equipment

##### General information

In the case of respirable dust, use self-contained breathing apparatus.

##### Eye/face protection

Avoid contact with eyes. Wear dust goggles.  
Wear chemical goggles; face shield (if handling molten material).

##### Skin protection

###### - Hand protection

Protective gloves. For molten material use heat resistant gloves.  
Solvent-resistant gloves (butylrubber).  
Thickness: > 1 mm  
Permeation rate: >480 min

###### - Other

For molten product, use any type rubber thermal insulating gloves and other clothing as necessary to protect from thermal burns.

##### Respiratory protection

Avoid inhalation of fumes from molten product. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Thermal hazards**

Not available.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls**

Not available.

**Section 9: Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Powder.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid. Molten liquid.
<b>Colour</b>	White.
<b>Odour</b>	Slight to none.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	140 °C
<b>Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>Flash point</b>	153 °C Cleveland open cup
<b>Auto-ignition temperature</b>	516 °C
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Density</b>	1.35 g/cm <sup>3</sup>
<b>Solubility (Water)</b>	28.7 mg/L at 20 °C
<b>Partition coefficient (n-octanol/water)</b>	2.25 Log Kow
<b>Decomposition temperature</b>	Not available.
<b>Bulk density</b>	500 kg/m <sup>3</sup>
<b>Viscosity</b>	Not available.
<b>Percent volatile</b>	0 % estimated
<b>Other data</b>	
<b>Chemical family</b>	Esters
<b>Flammability class</b>	Combustible IIIB estimated
<b>Molecular weight</b>	194.19
<b>Specific gravity</b>	1.2 at 20°C (solid)
<b>Other information</b>	No relevant additional information available.

**Section 10: Stability and reactivity****Reactivity**

Not available.

**Chemical stability**

Stable at normal conditions.

**Possibility of hazardous reactions**

Not expected to occur.

**Conditions to avoid**

Not available.

**Incompatible materials**

Strong acids, alkalies and oxidizing agents.

**Hazardous decomposition products**

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

**Section 11: Toxicological information**

**General information** Not available.

**Information on likely routes of exposure**

**Ingestion** Not available.

**Inhalation** Not available.

**Skin contact** Not available.

**Eye contact** Not available.

**Symptoms** Not available.

**Information on toxicological effects**

**Acute toxicity** Acute LD50: 3200 mg/kg, Rat, Oral

**Product**

DIMETHYL TEREPHTHALATE - Vlissingen (120-61-6)

**Test results**

Acute Oral LD50 Rat: 3200 mg/kg

Chronic Inhalation NOEL Rat: 3 mg/kg/day (rat 28 days)

**Components**

DIMETHYL TEREPHTHALATE (120-61-6)

**Test results**

Acute Oral LD50 Rat: 3200 mg/kg

**Skin corrosion/irritation** Similar products produced no irritation or sensitization in skin tests on human subjects.

**Serious eye damage/eye irritation** When exposed to a similar substance, eye irritation has been observed in rabbits.

**Skin sensitisation** Not classified due to lack of data.

**Respiratory sensitisation** Not classified due to lack of data.

**Germ cell mutagenicity** Not classified due to lack of data.

**Carcinogenicity** Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

**Reproductive toxicity** Not classified due to lack of data.

**Specific target organ toxicity - single exposure** Not classified due to lack of data.

**Specific target organ toxicity - repeated exposure** Not classified due to lack of data.

**Aspiration hazard** Not classified due to lack of data.

**Mixture versus substance information**

Not available.

**Other information** Not available.

**Section 12: Ecological information****Toxicity****Product**

DIMETHYL TEREPHTHALATE - Vlissingen (120-61-6)

**Test results**

EC50 Algae: > 27.6 mg/l 96.00 Hours

LC50 Daphnia: > 30.4 mg/l 48.00 Hours

LC50 Fathead Minnows: > 13 mg/l 96.00 Hours

**Components**

DIMETHYL TEREPHTHALATE (120-61-6)

**Test results**

EC50 Daphnia: 30.4 mg/l 48.00 Hours

**Components****Test results**

IC50 Algae: 27.6 mg/l 72.00 Hours

<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

**Section 13: Disposal considerations****Waste treatment methods****Residual waste**

Not available.

**Contaminated packaging**

Not available.

**EU waste code**

Not available.

**Disposal methods/information**

Dispose in accordance with all applicable regulations.

**Section 14: Transport information****ADR**

<b>UN number</b>	UN3256
<b>UN proper shipping name</b>	Elevated temperature liquid, flammable, n.o.s. (DIMETHYL TEREPHTHALATE)
<b>Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No
<b>Tunnel restriction code</b>	D/E
<b>Labels required</b>	3
<b>Special precautions for user</b>	Not available.

**RID**

<b>UN number</b>	UN3256
<b>UN proper shipping name</b>	Elevated temperature liquid, flammable, n.o.s. (DIMETHYL TEREPHTHALATE (DMT))
<b>Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	No
<b>Labels required</b>	3
<b>Special precautions for user</b>	Not available.

**ADN**

Not regulated as dangerous goods.

**IATA**

<b>UN proper shipping name</b>	Molten material not permitted. Solid material is not regulated.
<b>Subsidiary class(es)</b>	-
<b>Environmental hazards</b>	No
<b>Special precautions for user</b>	Not available.

**IMDG**

<b>UN number</b>	UN3256
<b>UN proper shipping name</b>	Elevated temperature liquid, flammable, n.o.s. (DIMETHYL TEREPHTHALATE)
<b>Transport hazard class(es)</b>	3
<b>Subsidiary class(es)</b>	-

Packing group	III
Marine pollutant	No
Labels required	3
EmS No.	F-E, S-D
Special precautions for user	Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

## Section 15: Regulatory information

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

### EU Regulations

**Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)**

Not listed.

**Regulation (EC) No. 1907/2006, Article 59(1). Candidate List**

Not listed.

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V**

Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**

Not listed.

### Other regulations

The product does not need to be labelled in accordance with EC directives or respective national laws.

### National regulations

Not available.

### Germany

Water Hazard Class	WGK1, ID Number 0723
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### Chemical safety assessment

Not available.

## Section 16: Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

Not available.

**Full text of any statements or R-phrases and H-phrases under Sections 2 to 15**

NON HAZARDOUS

### Revision information

Not available.

### Training information

Not available.

## Disclaimer

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