

Trade name: WT-DMEasy (cans and canisters)

Status: 01.09.2008

Product no.: WES-011

Version: 2.0.0 / GB

Date of printing: 01.09.2008

## 1.) Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

#### Trade name

**WT-DMEasy (cans and canisters)**

#### Use of the substance/preparation

industrial adhesive

### Company/undertaking identification

#### Address

Westech Aerosol GmbH  
Meisenrain 6  
79618 Rheinfeldern

Telephone no. +49 (0)7623 - 909023  
+49 (0)7623 - 909056

#### Information provided by / telephone

+49 (0)7623 - 909023

#### Emergency telephone

+49(0)551 / 19240 {Giftinformationszentrum Nord (GIZ-Nord)} (Service in english)

#### Advice on Safety Data Sheet

sdb\_info@umco.de

## 2.) Hazards identification

### Classification

F+; R12	Extremely flammable
Xn; R65	Harmful: may cause lung damage if swallowed.
N; R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R66	Repeated exposure may cause skin dryness or cracking.

### Hazard symbols

F+	Extremely flammable
Xn	Harmful
N	Dangerous for the environment

### R phrases

12	Extremely flammable
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.

## 3.) Composition / information on ingredients

### Chemical characterization

Mixture (preparation)

### Hazardous ingredients

#### acetone

EC no.	200-662-2	Index no.	606-001-00-8	CAS no.	67-64-1
Concentration	>= 1	<=	10	%-b.w.	
Classification	F; R11-Xi; R36-R66-R67				
Hazard symbols	F, Xi	R phrases	11-36-66-67		

#### 2-methylbutane

EC no.	201-142-8	Index no.	601-006-00-1	CAS no.	78-78-4
Concentration	>= 30	<=	40	%-b.w.	
Classification	F+; R12-Xn; R65-N; R51/53-R67-R66				
Hazard symbols	F+, Xn, N	R phrases	12-51/53-65-66-67		

#### dimethyl ether

EC no.	204-065-8	Index no.	603-019-00-8	CAS no.	115-10-6
Concentration	> 50	<	70	%-b.w.	
Classification	F+; R12				
Hazard symbols	F+	R phrases	12		

## 4.) First aid measures

### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

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#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

#### After skin contact

Wash immediately with plenty of water for several minutes. Don't use solvents. Consult a doctor if skin irritation persists.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an ophthalmologist.

#### After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately. Drink water in small gulps. Never give anything by mouth to an unconscious person.

#### Advice to doctor

##### Hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## 5.) Fire-fighting measures

#### Suitable extinguishing media

Alcohol-resistant foam; extinguishing powder; Carbon dioxide

#### Extinguishing media that must not be used for safety reasons

Full water jet

#### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Fire gas of organic material has to be classed invariably as respiratory poison.

#### Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing.

#### Other information

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

## 6.) Accidental release measures

#### Personal precautions

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

#### Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### Methods for cleaning up/taking up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

## 7.) Handling and storage

#### Handling

##### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

##### Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

#### Storage

##### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

##### Advice on storage assembly

Do not store together with:

Acids

Bases

Reducing agents

Oxidizing agents

Do not store together with foodstuffs.

##### Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

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**Recommended storage temperature**

Value < 49 °C

## 8.) Exposure controls / personal protection

**Exposure limit values**

**acetone**

CAS no. 67-64-1  
EC no. 200-662-2

**2000/39/EWG**

Acetone  
TWA 1210 mg/m<sup>3</sup> 500 ml/m<sup>3</sup>

**Occupational Exposure Standards (OESs) / EH40**

Acetone  
TWA 1810 mg/m<sup>3</sup> 500 ml/m<sup>3</sup>  
STEL 3620 mg/m<sup>3</sup> 1500 ml/m<sup>3</sup>

**2-methylbutane**

CAS no. 78-78-4  
EC no. 201-142-8

**2006/15/EG**

Isopentan  
TWA 3000 mg/m<sup>3</sup> 1000 ml/m<sup>3</sup>

**dimethyl ether**

CAS no. 115-10-6  
EC no. 204-065-8

**2000/39/EWG**

Dimethylether  
TWA 1920 mg/m<sup>3</sup> 1000 ml/m<sup>3</sup>

**List of approved workplace exposure limits (WELs) / EH40**

Dimethyl ether  
TWA 766 mg/m<sup>3</sup> 400 ml/m<sup>3</sup>  
STEL 958 mg/m<sup>3</sup> 500 ml/m<sup>3</sup>

**Personal protective equipment**

**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Breathing apparatus: gas filter AX, code colour: brown

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile  
Material thickness > 0,3 mm  
Breakthrough time > 480 min.

**Eye protection**

Safety glasses with side protection shield (EN 166)

**Skin protection**

protective overalls, antistatic

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Have eye wash fountain available. Have emergency shower available.

## 9.) Physical and chemical properties

**General information**

Form liquid  
Colour clear  
Odour ether-like

**Important health, safety and environmental information**

**Changes in physical state**

Type Boiling point  
Value 21 °C

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**Flash point**

Value < -18 °C  
Method Pensky-Martens closed cup

**Explosion limits**

Upper explosion limit 27 % vol  
Lower explosion limit 1,4 % vol

**Vapour pressure**

Value appr. 595 mm Hg

**Density**

Value 0,61  
Remarks H2O = 1

**Solubility in water**

Remarks insoluble

**10.) Stability and reactivity**

**Conditions to avoid**

Heat; Keep away sources of ignition.

**Materials to avoid**

Acids; Bases; Reducing agents; Oxidizing agents

**Hazardous decomposition products**

Carbon monoxide; Hydrocarbons

**11.) Toxicological information**

**Acute toxicity**

**Acute oral toxicity**

Remarks No data available.

**Acute dermal toxicity**

Remarks No data available.

**Acute inhalational toxicity**

LC50 300 g/m<sup>3</sup>  
Reference substance dimethylether  
Species rat

**Effects after repeated or prolonged exposition (subacute, subchronic, chronic)**

**Mutagenicity**

Remarks No experimental information on genotoxicity available.

**Reproduction toxicity**

Remarks No experimental information on reproduction toxic effects available.

**Carcinogenicity**

Remarks No experimental information on carcinogenic effects available.

**Experience in practice**

Inhalation of vapours may lead to headache, drowsiness and dizziness.  
Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.  
Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.  
Eye contact with the product may lead to irritation.  
In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**12.) Ecological information**

**Other adverse effects**

Do not allow to enter soil, waterways or waste water canal.  
Ecological data are not available.

**13.) Disposal considerations**

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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## 14.) Transport information

### Land transport ADR/RID

Class	2	Classification code	2F
Packaging group	-		
Hazard id. no.	23		
Label	2.1		
UN number	3161		
Technical name	Liquefied gas, flammable, n.o.s.		
Special Provision 640	-		
Danger releasing substance	2-methylbutane dimethyl ether		

Remarks	Canisters		
Class	2	Classification code	5F
Packaging group	-		
Label	2.1		
UN number	1950		
Technical name	Aerosols, flammable		
Special Provision 640	-		
Danger releasing substance	2-methylbutane dimethyl ether		
Remarks	Cans		

### Marine transport IMDG

Class	2.1
Packaging group	-
UN number	3161
Proper shipping name	Liquefied gas, flammable, n.o.s.
Danger releasing substance	2-methylbutane dimethyl ether

EmS	F-D,S-U
MARPOL	-
Label	2.1
Remarks	Canisters
Class	2
Subsidiary-hazard	See SP63
Packaging group	-
UN number	1950
Proper shipping name	Aerosols, flammable
Danger releasing substance	2-methylbutane dimethyl ether
EmS	F-D,S-U
MARPOL	-
Label	2.1
Remarks	Cans

### Air transport ICAO/IATA

Class	2.1
UN number	3161
Proper shipping name	Liquefied gas, flammable, n.o.s.
Danger releasing substance	2-methylbutane dimethyl ether

Label	2.1
Remarks	Canisters
Class	2.1
UN number	1950
Proper shipping name	Aerosols, flammable
Danger releasing substance	2-methylbutane dimethyl ether
Label	2.1
Remarks	Cans

## 15.) Regulatory information

### Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

### Hazard symbols

F+	Extremely flammable
Xn	Harmful
N	Dangerous for the environment

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## R phrases

- |       |   |
|-------|---|
| 12    | Extremely flammable   |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 65    | Harmful: may cause lung damage if swallowed.  |
| 66    | Repeated exposure may cause skin dryness or cracking.                                       |
| 67    | Vapours may cause drowsiness and dizziness.   |

## S phrases

- |       |   |
|-------|---|
| 16    | Keep away from sources of ignition --- No smoking.  |
| 26    | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.           |
| 36/37 | Wear suitable protective clothing and gloves.   |
| 61    | Avoid release to the environment. Refer to special instructions / Safety data sheets.                   |
| 62    | If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. |

## Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I No. 8

## 16.) Other information

### Sources of key data used to compile the data sheet:

- EC Directive 67/548/EC resp. 99/45/EC as amended in each case.
  - Regulation (EC) No 1907/2006 (REACH) as amended in each case.
  - EC Directives 2000/39/EC, 2006/15/EC as amended in each case.
  - National Threshold Limit Values of the corresponding countries as amended in each case.
  - Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
- The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Relevant R-phrases (chapter 3):

- |       |   |
|-------|---|
| 11    | Highly flammable.   |
| 12    | Extremely flammable   |
| 36    | Irritating to eyes.   |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 65    | Harmful: may cause lung damage if swallowed.  |
| 66    | Repeated exposure may cause skin dryness or cracking.                                       |
| 67    | Vapours may cause drowsiness and dizziness.   |

### Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.