

**Dimethylamine****047****SECTION 1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : Dimethylamine , DIMETHYLAMINE (N20)  
SDS no : 047  
Chemical description : Dimethylamine  
CAS No :124-40-3  
EC No :204-697-4  
Index No :612-001-00-9  
Registration-No. : 01-2119475495-27-  
Chemical formula : C2H7N

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

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.  
Test gas / Calibration gas. Chemical reaction / Synthesis. Laboratory use.  
Contact supplier for more uses information.  
Uses advised against : Consumer use.

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

Company identification : AIR LIQUIDE Deutschland GmbH  
Hans-Günther-Sohl-Straße 5  
D-40235 Düsseldorf GERMANY  
Telefon: +49 (0)211 6699-0 - Fax: +49 (0)211 6699-222  
E-Mail address (competent person) : Info.SDB@AirLiquide.de

**1.4. Emergency telephone number**

Emergency telephone number : +49 (0)2151 398668  
- Availability : ( 24 / 7 )

**SECTION 2. Hazards identification****2.1. Classification of the substance or mixture****Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

- Health hazards : Acute toxicity, Inhalation - Category 4 - Warning - (CLP : Acute Tox. 4) - H332  
Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315  
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318  
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 -  
Warning - (CLP : STOT SE 3) - H335
- Physical hazards : Flammable gases - Category 1 - Danger - (CLP : Flam. Gas 1) - H220  
Gases under pressure - Liquefied gases - Warning - (CLP : Press. Gas) - H280

**2.2. Label elements****Labelling Regulation EC 1272/2008 (CLP)**

- Hazard pictograms



- Hazard pictograms code : GHS02 - GHS05 - GHS04 - GHS07
- Signal words : Danger
- Hazard statements : H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.  
H318 - Causes serious eye damage.  
H315 - Causes skin irritation.  
H332 - Harmful if inhaled.



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## SECTION 2. Hazards identification (continued)

- H335 - May cause respiratory irritation.
- **Precautionary statements**
    - **Prevention**
      - : P260 - Do not breathe gas, vapours.
      - P280 - Wear protective gloves, protective clothing, eye protection, face protection.
      - P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
    - **Response**
      - : P304+P340+P315 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice / attention.
      - P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention.
      - P302+P352 - IF ON SKIN : Wash with plenty of soap and water.
      - P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
      - P381 - Eliminate all ignition sources if safe to do so.
      - P332+P313 - If skin irritation occurs : Get medical advice/attention.
    - **Storage**
      - : P403 - Store in a well-ventilated place.

### 2.3. Other hazards

- Other hazards : None.

## SECTION 3. Composition/information on ingredients

### 3.1. Substance / 3.2. Mixture

Substance.

Substance name	Content [Vol-%]	CAS No EC No Index No Registration no.	Classification(DSD)	Classification(CLP)
Dimethylamine	: 100 %	124-40-3 204-697-4 612-001-00-9 01-2119475495-27-		Flam. Gas 1 (H220) Eye Dam 1 (H318) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) STOT SE 3 (H335) Liq. Gas (H280)

Contains no other components or impurities which will influence the classification of the product.

\* 1: Listed in Annex IV / V REACH, exempted from registration.

\* 2: Registration deadline not expired.

\* 3: Registration not required: Substance manufactured or imported < 1t/y

Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

- **Inhalation** : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.
- **Skin contact** : Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
- **Eye contact** : Immediately flush eyes thoroughly with water for at least 15 minutes.
- **Ingestion** : Ingestion is not considered a potential route of exposure.

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

- : May cause irritation to skin.
- May cause severe chemical burns to cornea. Suitable first-aid treatment should be immediately available. Seek medical advice before using product.
- Refer to section 11.

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### SECTION 4. First aid measures (continued)

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

- : Obtain medical assistance.  
Treat with corticosteroid spray as soon as possible after inhalation

### SECTION 5. Fire-fighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Dry powder.  
Water spray or fog.
- Unsuitable extinguishing media : Carbon dioxide.  
Do not use water jet to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

- Specific hazards : Exposure to fire may cause containers to rupture/explode.
- Hazardous combustion products : If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition : Carbon monoxide. Nitric oxide/nitrogen dioxide.

#### 5.3. Advice for firefighters

- Specific methods : Move containers away from the fire area if this can be done without risk.  
Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.  
If possible, stop flow of product.  
Use fire control measures appropriate to the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems.  
Use water spray or fog to knock down fire fumes if possible.
- Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.  
EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams.

### SECTION 6. Accidental release measures

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

- : Act in accordance with local emergency plan.  
Stay upwind.  
Ensure adequate air ventilation.  
Eliminate ignition sources.  
Evacuate area.  
Wear gas tight chemically protective clothing in combination with self contained breathing apparatus.  
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.  
Try to stop release.  
Consider the risk of potentially explosive atmospheres.

#### 6.2. Environmental precautions

- : Try to stop release.  
Reduce vapour with fog or fine water spray.



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## SECTION 6. Accidental release measures (continued)

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

- : Wash contaminated equipment or sites of leaks with copious quantities of water.  
Hose down area with water.  
Ventilate area.

### 6.4. Reference to other sections

- Reference to other sections : See also sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

#### Safe use of the product

- : Do not breathe gas.  
Avoid release of product into atmosphere.  
Take precautionary measures against static discharge.  
Keep away from ignition sources (including static discharges).  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Avoid exposure, obtain special instructions before use.  
Do not smoke while handling product.  
Avoid suck back of water, acid and alkalis.  
Only experienced and properly instructed persons should handle gases under pressure.  
Ensure the complete gas system was (or is regularly) checked for leaks before use.  
Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service.  
Assess the risk of potentially explosive atmosphere and the need for explosion-proof equipment.  
Consider the use only non-sparking tools.  
The product must be handled in accordance with good industrial hygiene and safety procedures.  
Consider pressure relief device(s) in gas installations.

#### Safe handling of the gas receptacle

- : Refer to supplier's container handling instructions.  
Do not allow backfeed into the container.  
Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.  
Protect cylinders from physical damage; do not drag, roll, slide or drop.  
Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.  
When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.  
Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.  
If user experiences any difficulty operating cylinder valve discontinue use and contact supplier.  
Close container valve after each use and when empty, even if still connected to equipment.  
Never attempt to repair or modify container valves or safety relief devices.  
Keep container valve outlets clean and free from contaminants particularly oil and water.  
Never attempt to transfer gases from one cylinder/container to another.  
Never use direct flame or electrical heating devices to raise the pressure of a container.  
Damaged valves should be reported immediately to the supplier.

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

- : Keep container below 50°C in a well ventilated place.  
Segregate from oxidant gases and other oxidants in store. Store containers in location free from fire risk and away from sources of heat and ignition. Stored containers should be periodically checked for general condition and leakage.  
Observe all regulations and local requirements regarding storage of containers.  
Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in the vertical position and properly secured to prevent toppling. Container valve

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## SECTION 7. Handling and storage (continued)

guards or caps should be in place. All electrical equipment in the storage areas should be compatible with the risk of potentially explosive atmosphere. Keep away from combustible materials.

### 7.3. Specific end use(s)

: None.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

##### Dimethylamine

: ILV (EU) - 8 H - [mg/m<sup>3</sup>] : 3.8  
: ILV (EU) - 8 H - [ppm] : 2  
: ILV (EU) - 15 min - [mg/m<sup>3</sup>] : 9.4  
: ILV (EU) - 15 min - [ppm] : 5  
: AGW (8h) - Germany [mg/m<sup>3</sup>] TRGS 900 : 3.7  
: AGW (8h) - Germany [ppm] TRGS 900 : 2  
: Exceeding factor AGW - Germany TRGS 900 : 2

#### DNEL: Derived no effect level (Workers)

##### Dimethylamine

: Inhalation-short term (local) [mg/m<sup>3</sup>] : 14.5  
: Inhalation-short term (systemic) [mg/m<sup>3</sup>] : 30.65  
: Inhalation-long term (systemic) [mg/m<sup>3</sup>] : 1.044  
: Inhalation-long term (systemic) [ppm] : 0.6  
: Dermal-long term (systemic) [mg/kg bw d] : 0.148

#### PNEC: Predicted no effect concentration

##### Dimethylamine

: Aqua (freshwater) [mg/l] : 0.006  
: Aqua (marine water) [mg/l] : 0.0006  
: Aquatic, intermittent releases [mg/l] : 0.006  
: Sediment, freshwater [mg/kg dw] : 0.0053  
: Sediment, marine water [mg/kg dw] : 0.00053  
: Sewage water treatment plant (STP) [mg/l] : 4.7  
: Soil, agricultural [mg/kg dw] : 0.046

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

: Provide adequate general and local exhaust ventilation.  
Alarm detectors should be used when toxic gases may be released.  
Systems under pressure should be regularly checked for leakages.  
Product to be handled in a closed system.  
Ensure exposure is below occupational exposure limits (where available).  
Consider work permit system e.g. for maintenance activities.

#### 8.2.2. Individual protection measures, e.g. personal protective equipment

: Protect eyes, face and skin from liquid splashes.  
A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.  
The following recommendations should be considered.  
PPE compliant to the recommended EN/ISO standards should be selected.

##### • Eye/face protection

: Wear goggles and a face shield when transfilling or breaking transfer connections  
Wear safety glasses with side shields  
Provide readily accessible eye wash stations and safety showers.  
Standard EN 166 - Personal eye-protection.

**Dimethylamine****047****SECTION 8. Exposure controls/personal protection (continued)**

- **Skin protection**
  - **Hand protection** : Standard EN 374 - Protective gloves against chemicals.  
Wear working gloves when handling gas containers.  
Standard EN 388 - Protective gloves against mechanical risk.  
Wear chemically resistant protective gloves.  
Permeation time: minimum >480min long term exposure; material / thickness [mm]:  
Consult glove manufacturer's product information on material suitability and material thickness.  
The breakthrough time of the selected gloves must be greater than the intended use period.  
Chloroprene rubber (CR) / 0,5  
Fluoroelastomer (FKM) / 0,7
  - **Other** : Keep suitable chemically resistant protective clothing readily available for emergency use.  
Keep suitable chemically resistant protective clothing readily available for emergency use.  
Consider the use of flame resistant anti-static safety clothing.  
Standard EN ISO 14116 - Limited flame spread materials.  
Standard EN ISO 1149-5 - Protective clothing: Electrostatic properties.  
Wear safety shoes while handling containers.  
Standard EN ISO 20345 - Personal protective equipment - Safety footwear.  
Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.
- **Respiratory protection** : Keep self contained breathing apparatus readily available for emergency use.  
Use gas filters and full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.  
Gas filters do not protect against oxygen deficiency.  
Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.  
Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.  
Consult respiratory device supplier's product information for the selection of the appropriate device.  
Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.  
Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.  
Recommended: Filter K (green).
- **Thermal hazards** : None necessary.
- 8.2.3. Environmental exposure controls** : Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	
<b>Physical state at 20°C / 101.3kPa</b>	: Gas.
<b>Colour</b>	: Colourless.
<b>Odour</b>	: Rotten fish. Odour can persist.
<b>Odour threshold</b>	: Odour threshold is subjective and inadequate to warn for overexposure.
<b>pH value</b>	: If dissolved in water pH-value will be affected.
<b>Molar mass [g/mol]</b>	: 45
<b>Melting point [°C]</b>	: -92.2
<b>Boiling point [°C]</b>	: 7
<b>Critical temperature [°C]</b>	: 164
<b>Flash point [°C]</b>	: Not applicable for gases and gas-mixtures.

**Dimethylamine****047****SECTION 9. Physical and chemical properties (continued)**

Evaporation rate (ether=1)	: Not applicable for gases and gas-mixtures.
Flammability range [vol% in air]	: 2.8 to 14.4
Vapour pressure [20°C]	: 1.7 bar
Relative density, gas (air=1)	: 1.5
Relative density, liquid (water=1)	: 0.67
Solubility in water [mg/l]	: Completely soluble.
Partition coefficient n-octanol/water [log Pow]	: -0.38
Auto-ignition temperature [°C]	: 400
Viscosity at 20°C [mPa.s]	: Not applicable.
Explosive Properties	: Not applicable.
Oxidising properties	: None.

**9.2. Other information**

Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
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**SECTION 10. Stability and reactivity****10.1. Reactivity**

: No reactivity hazard other than the effects described in sub-sections below.

**10.2. Chemical stability**

: Stable under normal conditions.

**10.3. Possibility of hazardous reactions**: Can form explosive mixture with air.  
May react violently with oxidants.**10.4. Conditions to avoid**

: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**10.5. Incompatible materials**: Reacts with water to form corrosive alkalis.  
May react violently with acids.  
Air, Oxidiser.  
For additional information on compatibility refer to ISO 11114**10.6. Hazardous decomposition products**

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

**Dimethylamine****047****SECTION 11. Toxicological information****11.1. Information on toxicological effects**

Acute toxicity	
Rat inhalation LC50 [ppm/4h]	: 5500
Skin corrosion/irritation	: Irritation to skin .
Serious eye damage/irritation	: Irritation to eyes.
Respiratory or skin sensitisation	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Reproductive toxicity	: No known effects from this product.
STOT-single exposure	: Irritation to the respiratory tract.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas-mixtures.

**SECTION 12. Ecological information****12.1. Toxicity**

Assessment	
EC50 48h - Daphnia magna [mg/l]	: 48
EC50 72h - Algae [mg/l]	: 9 No data available.
LC50-96h - fish [mg/l]	: 17 to 118 4.1

**12.2. Persistence and degradability**

Assessment	: The substance is biodegradable. Unlikely to persist.
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**12.3. Bioaccumulative potential**

Assessment	: Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.
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**12.4. Mobility in soil**

Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution.
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**12.5. Results of PBT and vPvB assessment**

: Not classified as PBT or vPvB.

**12.6. Other adverse effects**

	: May cause pH changes in aqueous ecological systems.
Effect on ozone layer	: None.
Effect on the global warming	: No known effects from this product.



**Dimethylamine****047****SECTION 13. Disposal considerations****13.1. Waste treatment methods**

: Must not be discharged to atmosphere.  
Toxic and corrosive gases formed during combustion should be scrubbed before discharge to atmosphere.  
Gas may be scrubbed in sulphuric acid solution.  
Refer to the code of practice of EIGA (Doc. 30/10 "Disposal of Gases, downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods  
Ensure that the emission levels from local regulations or operating permits are not exceeded.

List of hazardous waste codes (from Commission Decision 2001/118/EC)

: 16 05 04: Gases in pressure containers (including halons) containing dangerous substances.

**13.2. Additional information**

: None.

**SECTION 14. Transport information****14.1. UN number**

UN number : 1032  
Labelling ADR, IMDG, IATA



: 2.1 : flammable gas.

**14.2. UN proper shipping name**

Transport by road/rail (ADR/RID) : DIMETHYLAMINE, ANHYDROUS  
Transport by air (ICAO-TI / IATA-DGR) : DIMETHYLAMINE, ANHYDROUS  
Transport by sea (IMDG) : DIMETHYLAMINE, ANHYDROUS

**14.3. Transport hazard class(es)**

Transport by road/rail (ADR/RID)  
Class : 2  
Classification code : 2 F  
H.I. nr : 23  
Tunnel Restriction : B/D Tank carriage: Passage forbidden through tunnels of category B, C, D  
Transport by air (ICAO-TI / IATA-DGR)  
Transport by sea (IMDG)  
Emergency Schedule (EmS) - Fire : F-D  
Emergency Schedule (EmS) - Spillage : S-U

**14.4. Packing group**

Transport by road/rail (ADR/RID) : Not applicable.  
Transport by air (ICAO-TI / IATA-DGR) : Not applicable.  
Transport by sea (IMDG) : Not applicable.

**14.5. Environmental hazards**

Transport by road/rail (ADR/RID) : None.  
Transport by air (ICAO-TI / IATA-DGR) : None.



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Transport by sea (IMDG) : No

**14.6 Special precautions for user**

Packing Instruction(s)

Transport by road/rail (ADR/RID) : P200

Transport by air (ICAO-TI / IATA-DGR)

Passenger and Cargo Aircraft : DO NOT LOAD IN PASSENGER AIRCRAFT.

Cargo Aircraft only : Allowed.

Packing instruction - Cargo Aircraft only : 200

Transport by sea (IMDG) : P200

Special precautions for user

- Ensure there is adequate ventilation.
- Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
- Before transporting product containers :
  - Ensure that containers are firmly secured.
  - Ensure cylinder valve is closed and not leaking.
  - Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
  - Ensure valve protection device (where provided) is correctly fitted.
- Avoid transport on vehicles where the load space is not separated from the driver's compartment.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Restrictions on use : None.

Seveso directive 96/82/EC : Covered

**National legislation**

: Ensure all national/local regulations are observed.

: [German regulations]

BetriebssicherheitsV mit TRBSen insbesondere TRBS 3145 / TRGS 725 "Ortsbewegliche Druckgasbehälter", TRBS 2141, BGR Regel 500 Teil 2.33: "Umgang mit Gasen", GefahrstoffV mit Technischen Regeln Gefährliche Stoffe TRGS insbesondere TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurteilung", TRGS 400, 500, 510, 900. BGR 104, TRBS 2152.

- 4. BlmschV (Germany) : Listed.

- Water hazard class (WGK) : WGK Germany: 2 - Hazard to waters.

**15.2. Chemical safety assessment**

: A Chemical safety assessment (CSA) has been carried out for this product.



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**SECTION 16. Other information**

- Indication of changes** : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010
- Training advice** : Ensure operators understand the flammability hazard.  
Users of breathing apparatus must be trained.
- Further information** : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.  
This Safety Data Sheet has been established in accordance with the applicable European Union legislation.
- List of full text of H-statements in section 3.** : H220 - Extremely flammable gas.  
H280 - Contains gas under pressure; may explode if heated.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H332 - Harmful if inhaled.  
H335 - May cause respiratory irritation.
- DISCLAIMER OF LIABILITY** : Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.  
Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

**End of document**