

**Trade name:** Maxigas 400 - Version A -600ml, 7/16"-EU**Product no.:** 035570-A, 035570-B**Current version :** 1.0.6, issued: 13.06.2024**Replaced version:** 1.0.5, issued: 04.05.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Maxigas 400 - Version A -600ml, 7/16"-EU****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Fuel gas

**Uses advised against**

No data available.

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

ROTHENBERGER Werkzeuge GmbH

Industriestraße 7

65779 Kelkheim

Telephone no. +49 (0) 61 95 / 800 - 1

Fax no. +49 (0) 6195 / 800 - 3500

e-mail info@rothenberger.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

Flam. Gas 1; H220

Press. Gas liq.; H280

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

acetone

**Hazard statement(s)**

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H220 Extremely flammable gas.  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Precautionary statement(s)**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P251 Do not pierce or burn, even after use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P410 Protect from sunlight.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Labelling information**

It is allowed to use the reduced labelling for gas containers for propane, butane or liquefied petroleum gas (LPG) based on Annex I, point 1.3.2 (EC Regulation 1272/2008 Annex I, 1.3.4).

**2.3 Other hazards**

Contact with the liquid can cause cold burns or frostbite. Vapours can form an explosive mixture with air.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Hazardous ingredients**

Hazardous ingredients				
No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	Petroleum gas, Petroleum gases, liquefied		Contains < 0.1 wt.% 1,3-butadiene (EC No. 203-450-8).	
	68476-85-7 270-704-2 649-202-00-6 01-2119486557-22	Flam. Gas 1A; H220 Press. Gas liq.; H280	>= 70.00 - < 90.00	Vol%
2	acetone			
	67-64-1 200-662-2 606-001-00-8 -	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	>= 10.00 - < 25.00	Vol%
3	pentane			
	109-66-0 203-692-4 601-006-00-1 -	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 EUH066 Flam. Liq. 2; H225 STOT SE 3; H336	< 2.50	Vol%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
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1	K	-	-	-
3	C	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove affected person from danger area, lay him down. If the patient is likely to become unconscious, place and transport in stable sideways position. In case of persisting adverse effects, consult a physician.

#### After inhalation

Ensure supply of fresh air. If breathing is irregular or stopped, administer artificial respiration.

#### After skin contact

In case of frostbite, rinse with plenty of water. Do not remove clothing. In case of contact with skin wash off immediately with copious amounts of water. Seek medical attention.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### After ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

#### Symptoms

CNS depression; Drowsiness; Light-headedness; Disturbance of vision; Frostbite

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Extinguishing powder; Carbon dioxide

#### Unsuitable extinguishing media

High power water jet; Foam

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

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; May explode if exposed to heat. Liquefied gas: Spilled liquid can cause cold burns. This gas is heavier than air and may accumulate in low areas. Formation of explosive mixtures with air is possible. In case of fire: danger of pressure build up, which could result in container rupture.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water. Pressure increase, bursting and explosion hazard during heating.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away from ignition sources. Evacuate all unprotected personnel from the danger zone. Use personal protective clothing.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

### 6.2 Environmental precautions

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Avoid release in the environment. Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

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

Ensure adequate ventilation. Allow to vaporise.

**6.4 Reference to other sections**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good room ventilation even at ground level (vapours are heavier than air). Open and handle container with care. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Handle with care - avoid bumps, friction and impact.

**General protective and hygiene measures**

Wash hands before breaks and after work. Do not inhale gases. Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Avoid contact with eyes and skin. Remove contaminated clothing and shoes and launder thoroughly before reusing.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools. Electrical equipment should be protected to the appropriate standard.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

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

**Recommended storage temperature**

Value < 50 °C

**Requirements for storage rooms and vessels**

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

**Incompatible products**

Do not store together with: oxidizing agents; oxidizing substances

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	Petroleum gas, Petroleum gases, liquefied	68476-85-7	270-704-2
List of approved workplace exposure limits (WELs) / EH40			
Liquefied petroleum gas			
	WEL short-term (15 min reference period)	2180 mg/m <sup>3</sup>	1250 ppm
	WEL long-term (8-hr TWA reference period)	1750 mg/m <sup>3</sup>	1000 ppm
	Comments	Carc (only applies if LPG contains more than 0.1% of buta-1,3-diene)	
2	acetone	67-64-1	200-662-2
	2000/39/EC		

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	Acetone				
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Acetone				
	WEL short-term (15 min reference period)	3620	mg/m³	1500	ppm
	WEL long-term (8-hr TWA reference period)	1210	mg/m³	500	ppm
3	carbon monoxide	630-08-0		211-128-3	
	2017/164/EU				
	Carbon monoxide				
	WEL short-term (15 min reference period)	117	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	23	mg/m³	20	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Carbon monoxide				
	WEL short-term (15 min reference period)	117	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	23	mg/m³	20	ppm
	Comments	BMGV			
	List of approved workplace exposure limits (WELs) / EH40				
	Carbon monoxide				
	WEL short-term (15 min reference period)	232	mg/m³	200	ppm
	WEL long-term (8-hr TWA reference period)	35	mg/m³	30	ppm
	Comments	Limits applicable to underground mining & tunnelling industries ONLY until 21/8/23			
	2022/431/EC				
	Carbon monoxide				
	WEL short-term (15 min reference period)	117	mg/m³	100	ppm
	WEL long-term (8-hr TWA reference period)	23	mg/m³	20	ppm
4	pentane	109-66-0		203-692-4	
	2006/15/EC				
	Pentane				
	WEL long-term (8-hr TWA reference period)	3000	mg/m³	1000	ppm
	List of approved workplace exposure limits (WELs) / EH40				
	Pentane				
	WEL long-term (8-hr TWA reference period)	1800	mg/m³	600	ppm

**DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Petroleum gas, Petroleum gases, liquefied			<b>68476-85-7</b> <b>270-704-2</b>	
	dermal	Long term (chronic)	systemic	23.4	mg/kg/day
	inhalative	Long term (chronic)	systemic	2.21	mg/m <sup>3</sup>
	Comments: The value is an Derived Minimum Effect Level (DMEL) and not a DNEL. A safe no effect level cannot be derived for this endpoint.				

**8.2 Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary.

**Personal protective equipment****Respiratory protection**

Self-contained breathing apparatus. In case of insufficient ventilation or long-term effect use breathing apparatus.

**Eye / face protection**

Tightly fitting safety glasses (EN 166).

**Hand protection**

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insulated gloves; Before use, the protective gloves 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.

**Other**

Chemical-resistant work clothes. Fire-resistant antistatic protective clothing. Protective shoes.

**Environmental exposure controls**

No data available.

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

<b>State of aggregation</b>	
gas	
<b>Form</b>	
Compressed liquified gas	
<b>Colour</b>	
colourless	
<b>Odour</b>	
characteristic	
<b>Odour threshold</b>	
Value	2.9 - 14.6 mg/m <sup>3</sup>
Reference substance	n-Butan
Source	supplier
Value	47.5 - 1613.9 mg/m <sup>3</sup>
Reference substance	Acetone
Source	supplier
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	-0.5 °C
Source	supplier
<b>Melting point/freezing point</b>	
Value	< 130 °C
Source	supplier
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	-74 °C
Source	supplier
<b>Ignition temperature</b>	
Value	465 °C
<b>Auto-ignition temperature</b>	
Value	365 °C
<b>Oxidising properties</b>	
not oxidizing	
<b>Explosive properties</b>	
The product is not explosive. Formation of explosive/highly flammable air-vapour mixtures is possible during/after use.	
<b>Flammability</b>	
highly flammable	

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Source	supplier
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Lower explosion limit			
Value	1.8	% vol	
Reference substance	n-Butan		
Source	supplier		
Value	1.8	% vol	
Reference substance	isobutane		
Source	supplier		
Value	2.2	% vol	
Reference substance	propane		
Source	supplier		
Value	2.5	% vol	
Reference substance	Acetone		
Source	supplier		

Upper explosion limit			
Value	8.4	% vol	
Reference substance	n-Butan		
Source	supplier		
Value	9.8	% vol	
Reference substance	isobutane		
Source	supplier		
Value	10	% vol	
Reference substance	propane		
Source	supplier		
Value	12.8	% vol	
Reference substance	Acetone		
Source	supplier		

Vapour pressure			
Value	1820	mmHg	
Reference temperature	25	°C	
Reference substance	n-Butan		
Source	supplier		
Value	2611	mmHg	
Reference temperature	25	°C	
Reference substance	isobutane		
Source	supplier		
Value	7150	mmHg	
Reference temperature	25	°C	
Reference substance	propane		
Source	supplier		
Value	231	mmHg	
Reference temperature	25	°C	
Reference substance	Acetone		
Source	supplier		

Relative vapour density			
Value	2.07		
Reference substance	n-Butan		
Source	supplier		
Comments	Air = 1		
Value	2.07		
Reference substance	isobutane		
Source	supplier		
Comments	Air = 1		
Value	1.56		
Reference substance	propane		
Source	supplier		
Comments	Air = 1		

Relative density	
Value	0.6

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Reference substance	n-Butan
Source	supplier
Comments	Water=1
Value	0.6
Reference substance	isobutane
Source	supplier
Comments	Water=1
Value	0.8
Reference substance	Acetone
Source	supplier
Comments	Water=1

**Density**

No data available

**Solubility**

Value	61.2	mg/l
Reference temperature	25	°C
Reference substance	n-Butan	
Source	supplier	
Value	48.9	mg/l
Reference temperature	25	°C
Reference substance	isobutane	
Source	supplier	
Value	62.4	ppm
Reference temperature	25	°C
Reference substance	propane	
Source	supplier	

**Partition coefficient n-octanol/water (log value)**

No data available

**Kinematic viscosity**

Value	0.30	cSt
Reference temperature	20	°C
Reference substance	n-Butan	
Source	supplier	
Comments	Liquid	
Value	0.20	cSt
Reference temperature	20	°C
Reference substance	propane	
Source	supplier	
Comments	Liquid	
Value	0.32	cSt
Reference temperature	20	°C
Reference substance	Acetone	
Source	supplier	
Comments	Liquid	

**Particle characteristics**

No data available

**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).



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Risk of formation of explosive gas mixtures in air. Reactions with oxygen. Exothermic reactions are possible in the event of contact with incompatible substances.

**10.4 Conditions to avoid**

Temperatures > 50°C. Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

Oxidizing agents; Halogens

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

No data available

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Reproduction toxicity**

No data available

**Carcinogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No data available

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No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

dispose of in accordance with local regulation.

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**

Compressed gas packaging under pressure. Do not open by force. Do not heat above 50°C. Dispose of compressed gas packagings only if completely discharged. Do not burn empty compressed gas packagings. Do not pierce, cut or weld uncleaned containers.

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR/RID/ADN

UN2037

IMDG

UN2037

ICAO-TI / IATA

UN2037

**14.2 UN proper shipping name**

ADR/RID/ADN

RECEPTACLES, SMALL, CONTAINING GAS

IMDG

RECEPTACLES, SMALL, CONTAINING GAS

ICAO-TI / IATA

Receptacles, small, containing gas

**14.3 Transport hazard class(es)**

ADR/RID/ADN - Class

2

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Label	2.1
Classification code	5F
Tunnel restriction code	D
<b>IMDG - Class</b>	2
Label	2.1
<b>ICAO-TI / IATA - Class</b>	2.1
Label	2.1

**14.4 Packing group**

Not classified as dangerous in the meaning of transport regulations.

**14.5 Environmental hazards**

EmS F-D, S-U

**14.6 Special precautions for user**

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	acetone	67-64-1	200-662-2	75
2	Petroleum gas, Petroleum gases, liquefied	68476-85-7	270-704-2	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: P2

**Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)**

VOC content 100 %

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**National regulations****Other regulations**This product is regulated by Regulation (EU) No. 2019/1148: All suspicious transactions, disappearance and theft of significant quantities must be reported to the appropriate national contact point. See [https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives\\_en](https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en)**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

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Alterations/supplements:

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

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

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

National Threshold Limit Values of the corresponding countries as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
K	The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

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

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