

Trade name: R 1224yd**Current version:** 2.0.0, Revision: 26.06.2026**Replaced version:** 1.1.0, Revision: 05.08.2025**Region:**
GER**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****R 1224yd**

Substance name (Z)-1-Chloro-2,3,3,3-tetrafluoropropene
REACH registration no. 01-2120816930-57

Identification numbers

CAS no. 111512-60-8
EC no. 813-937-2

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

Refrigerant
Solvent
Bloating agent

Uses advised against

All other uses

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

TEGA-Technische Gase und Gasetechnik GmbH
Werner-von-Siemens-Straße 18
97076 Würzburg

Telephone no. +49 931 2093-220
Fax no. +49 931 2093-180
e-mail kaeltmittel@tega.de

Advice on Safety Data Sheet

sdb_info@umco.de

Sales Partner Austria:**Address**

TEGA Austria GmbH
Steyrer Str. 62
3350 Haag
Tel.: +43 7434 42851

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)**

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 and 4 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**Product identifier**

111512-60-8 ((Z)-1-Chloro-2,3,3,3-tetrafluoropropene)

Hazard pictograms

GHS04



GHS07

Signal word

Warning

Hazard statement(s)

H280 Contains gas under pressure; may explode if heated.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P261 Avoid breathing gas.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
P501 Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

2.3 Other hazards

EIGA-As: asphyxiating gas in high concentrations; Contact with the liquid can cause cold burns or frostbite. This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

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

Substance name (Z)-1-Chloro-2,3,3,3-tetrafluoropropene
Formula C₃HClF₄
Molecular weight 148,49

Identification numbers

CAS no. 111512-60-8
EC no. 813-937-2

3.2 Mixtures

Not applicable. The product is not a mixture.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. Remove affected person from danger area, lay him down. Seek medical advice immediately.

After inhalation

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

In case of contact with skin wash off immediately with soap and water. Rinse with much water in case of frostbites. Remove clothes only after unfreezing. Cover wounds with sterile dressing. Call a doctor immediately.

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). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

The following symptoms may occur: respiratory arrest. Shortness of breath; Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling. May be fatal if inhaled.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media

High power water jet

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; Hydrogen fluoride (HF); carbonyl halides; 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. The product is not flammable.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. 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. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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. Provide good room ventilation even at ground level (vapours are heavier than air). Do not breathe gas. Keep away from ignition sources. Use personal protective clothing. Cordon and mark contaminated area. Remove persons to safety.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Avoid release in the environment. Suppress gases/vapours/mists with water spray jet.

6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation. Dispose of absorbed material in accordance with the regulations.

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**

Only qualified and trained persons are authorised to handle. Provide good ventilation at the work area (local exhaust ventilation, if necessary). To be used only according to instructions for use. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers heat or sources of ignition. In case of accidental release: danger due to low temperature of the liquid product. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Comply with the health and safety at work laws.

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 foodstuffs and beverages. Have emergency shower available.

Advice on protection against fire and explosion

The product is not combustible. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). 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

Substances to be avoided, see section 10.

Storage Class according TRGS 510

2A Gases (except aerosol dispensers and lighters)

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene			111512-60-8 813-937-2
	inhalative	Long term (chronic)	systemic	1260 mg/m ³
	inhalative	Short term (acute)	systemic	69365 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene			111512-60-8 813-937-2
	inhalative	Long term (chronic)	systemic	224 mg/m ³

inhalative	Short term (acut)	systemic	51765	mg/m ³
------------	-------------------	----------	-------	-------------------

PNEC values

No	Substance name	CAS / EC no
	ecological compartment	Type
		Value
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8 813-937-2
	water	fresh water
	water	marine water
	water	fresh water sediment
	water	marine water sediment
	soil	-
		4,87 µg/L
		0,487 µg/L
		75,9 µg/kg dry weight
		76 µg/kg dry weight
		12 µg/kg dry weight

8.2 Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, local exhaust at the work station if necessary. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Personal protective equipment**Respiratory protection**

Self-contained breathing apparatus. In case of insufficient ventilation or long-term effect use breathing apparatus. Danger of suffocation due to high concentrations in breathing air.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Low-temperature-resistant gloves (EN 511). 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 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.

Appropriate Material Leather

Other

Chemical-resistant work clothes. Protective shoes.

Environmental exposure controls

Information regarding waste disposal, see chapter 13.

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

State of aggregation	
gas	
Form	
liquified gas	
Colour	
colourless	
Odour	
ethereal	
pH value	
Not applicable	
reason for missing pH	substance/mixture is a gas

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER

Boiling point / boiling range			
Value	15	°C	
Reference pressure	1013	hPa	
Source	ECHA		
Melting point/freezing point			
Value	-115,2	°C	
Method	OECD 102		
Source	ECHA		
Decomposition temperature			
no data available			
Flash point			
Not applicable			
Ignition temperature			
No data available			
Auto-ignition temperature			
Value	543	°C	
Method	A 15		
Source	supplier		
Oxidising properties			
No data available.			
Explosive properties			
No data available			
Flammability			
The product is non-flammable.			
Method	EN 1839:2009 (method T)		
Source	supplier		
Lower explosion limit			
Value	16	%	
Source	supplier		
Upper explosion limit			
Value	19	%	
Source	supplier		
Vapour pressure			
Value	151	kPa	
Reference temperature	25	°C	
Source	supplier		
Relative vapour density			
Value	5,2		
Source	supplier		
Comments	Air = 1		
Relative density			
Value	1,362		
Reference temperature	25	°C	
Reference substance	Liquid substance		
Source	supplier		
Comments	Water=1		
Density			
No data available			
Solubility in water			

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER

Value	540	mg/L
Reference temperature	20	°C
Source	supplier	

Solubility
No data available

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
log Pow	appr.	2,4	
Reference temperature		25	°C
with reference to	pH: 5,9		
Method	OECD 117		
Source	ECHA		

Kinematic viscosity			
Value	0,261	mPa*s	
Reference temperature	25	°C	
Type	dynamic		
Source	supplier		

Particle characteristics
No data available

9.2 Other information

Other information
No data available.

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

Dangerous reactions are not expected if the product is handled according to its intended use. For the avoidance of thermal reaction does not overheat.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

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

10.5 Incompatible materials

Alkali metals; Earth alkali metals

10.6 Hazardous decomposition products

None, if handled according to intended use. In case of fire: see section 5.

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	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER

LC50	>	20180	ppmV
Duration of exposure		4	h
State of aggregation	Gas		
Species	rat		
Method	OECD 436		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
Type of examination	in vitro gene mutation study in bacteria		
Species	S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Duration of exposure		4	h
Type of examination	in vivo mammalian germ cell study: gene mutation		
Method	OECD 474		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
Route of exposure	inhalational		
Type of examination	Reproduction/Developmental Toxicity Screening Test		
Species	rat		
Method	OECD 421		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
NOEL		20510	ppm
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity

No data available

STOT - single exposure

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
Route of exposure	inhalational		
NOEC	>	40335	ppm
Duration of exposure		4	week/s
Species	rat		
Method	OECD 412		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
Route of exposure		inhalational	
NOAEC		10320	ppm
Duration of exposure		13	week/s
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

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	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
LC50		101	mg/l
Duration of exposure		96	h
Species		Oryzias latipes	
Method		OECD 203	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
EC50		18,9	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		OECD 202	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Toxicity to Daphnia (chronic)
No data available

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
EC50		>	4,87
Duration of exposure		72	h
Species		Raphidocelis subcapitata	
Method		OECD 201	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Toxicity to algae (chronic)

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability**Biodegradability**

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
Type	aerobic biodegradation		
Value		0	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	not degradable		

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

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
log Pow	appr.	2,4	
Reference temperature		25	°C
with reference to	pH: 5,9		
Method	OECD 117		
Source	ECHA		

12.4 Mobility in soil**Results of PMT and vPvM assessment**

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
PMT assessment	The substance is not PMT.		
vPvM assessment	The substance is not vPvM.		
Source	ECHA		

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

R 1224yd

PBT assessment	The product is not considered to be a PBT.		
vPvB assessment	The product is not considered to be a vPvB.		
Source	supplier		

No	Substance name	CAS no.	EC no.
1	(Z)-1-Chloro-2,3,3,3-tetrafluoropropene	111512-60-8	813-937-2
PBT assessment	The substance is not PBT.		
vPvB assessment	The substance is not vPvB.		
Source	ECHA		

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information**Other information**

Do not discharge product unmonitored into the environment.

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

Trade name: R 1224yd

Current version: 2.0.0, Revision: 26.06.2026

Replaced version: 1.1.0, Revision: 05.08.2025

Region:
GER**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

Dispose of in accordance with federal, state and local regulations. Disposal should be observed in conformity with the Regional Waste Disposal Authority.

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

ADR/RID/ADN UN3163

IMDG UN3163

ICAO-TI / IATA UN3163

14.2 UN proper shipping name

ADR/RID/ADN LIQUEFIED GAS, N.O.S.

Technical name (Z)-1-Chloro-2,3,3,3-tetrafluoropropene

IMDG LIQUEFIED GAS, N.O.S.

Technical name (Z)-1-Chloro-2,3,3,3-tetrafluoropropene

ICAO-TI / IATA Liquefied gas, n.o.s.

Technical name (Z)-1-Chloro-2,3,3,3-tetrafluoropropene

14.3 Transport hazard class(es)

ADR/RID/ADN - Class 2

Label 2.2 RID: (+13)

Classification code 2A

Tunnel restriction code C/E

Hazard identification no. 20

IMDG - Class 2.2

Label 2.2

ICAO-TI / IATA - Class 2.2

Label 2.2

14.4 Packing group

ADR/RID/ADN -

IMDG -

ICAO-TI / IATA -

14.5 Environmental hazards

EmS F-C, S-V

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)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

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

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

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 substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

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

This substance is not subject to Part 1 or 2 of Annex I

Other regulations

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

National regulations**Water Hazard Class (Germany)**

Class	1
Identification number	11270
Source	Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

Other regulations

Take into account: TRGS 510 "Storage of hazardous substances in non-stationary containers"

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

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

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 section.

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 and 4 of Annex I to CLP.

Creation of the safety data sheet

UMCO GmbH

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.

This document is an English translation of the legally compliant safety data sheet of the region Germany. This document, including UFI and emergency telephone number, may only be used for placing on the market in the region Germany.

Copyright-protected document. Any changes or reproductions require the express consent of UMCO GmbH.

Prod-ID 798488