

with 1907/2006/EC

Trade name: R-1233zd

Current version: 1.0.1. issued: 31.07.2025 Replaced version: 1.0.0. issued: 19.03.2025 Region:

GER

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifier**

Trade name

R-1233zd

Substance name trans-1-chloro-3,3,3-trifluoropropene

REACH registration no. 01-2119855084-38

Identification numbers

102687-65-0 CAS no.

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

Relevant identified uses of the substance or mixture

Refrigerant

Heat transfer medium

Uses advised against

Consumer use

1.3 Details of the supplier of the safety data sheet

TEGA - Technische Gase und Gasetechnik GmbH

Werner-von-Siemens-Straße 18

97076 Würzburg

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

Advice on Safety Data Sheet

sdb info@umco.de

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)

Aquatic Chronic 3; H412 Press. Gas liq.; H280

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

102687-65-0 (trans-1-chloro-3,3,3-trifluoropropene)

Hazard pictograms

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Signal word

Warning

Hazard statement(s)

H280 Contains gas under pressure; may explode if heated. H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P501 Dispose of contents/container to a facility in accordance with local and national

regulations.

Supplemental label elements

Contains fluorinated greenhouse gas

2.3 Other hazards

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. Danger of suffocation by displacement of air / oxygen. Contact with the liquid can cause cold burns or frostbite.

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 trans-1-chloro-3,3,3-trifluoropropene

Degree of purity 100

Formula C3H2CIF3 Molecular weight 130,5

Identification numbers

CAS no. 102687-65-0

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

Remove affected person from danger area, lay him down. Remove contaminated clothing and clean before reuse. Adhere to personal protective measures when giving first aid.

After inhalation

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 chlothes 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.

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After ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

No data available.

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

The product is not flammable. Extinguishing measures to suit surroundings. recommended: alcohol resistant foam, CO2, powders, water spray/mist

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: Hydrogen fluoride (HF); Hydrogen chloride (HCI); Carbon monoxide and carbon dioxide; carbonyl halides; halogenated compounds; Liquefied gas: Spilled liquid can cause cold burns. This gas is heavier than air and may accumulate in low areas.

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). Remove persons to safety. Cordon and mark contaminated area. Use personal protective clothing. Do not breathe gas. Keep away from ignition sources. Avoid skin contact with leaking liquid (danger of frostbite!).

For emergency responders

No data available. 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

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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. 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. Provide eye wash fountain in work area. Have emergency shower available. Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

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. May form a flammable mixture with air at superatmospheric pressure.

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.

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.

Stoarge 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	No Substance name		CAS / EC no		
	Route of exposure	Exposure time	Effect	Value	
1	1 trans-1-chloro-3,3,3-trifluoropropene			102687-65-0	
				-	
	inhalative	Long term (chronic)	systemic	1779	mg/m³

DNEL value (consumer)

No	Substance name		CAS / EC no		
	Route of exposure	Exposure time	Effect	Value	
1	trans-1-chloro-3,3,3-trifluoropropene			102687-65-0	
				•	
	oral	Long term (chronic)	systemic	109	mg/kg/day
	inhalative	Long term (chronic)	svstemic	379	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	trans-1-chloro-3,3,3-trifluoropropene		102687-65-0	
			-	
	water	fresh water	- 0,038 m	ng/L

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water	fresh water sediment	0,691	mg/kg dry
			weight
water	marine water sediment	0,069	mg/kg dry
			weight
soil	-	0,126	mg/kg dry
			weight

8.2 Exposure controls

Appropriate engineering controls

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

Personal protective equipment

Respiratory protection

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 viton

Other

Chemical-resistant work clothes. Protective shoes.

Environmental exposure controls

Avoid release into sewage and environment.

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					
slight					
pH value					
No data available					
Boiling point / boiling range					
Value		19	°C		
Method	OECD 103				
Source	supplier				
Melting point/freezing point					
Value	<	-90	°C		
Method	OECD 102	30			
Source	supplier				
	. 11				
Decomposition temperature					

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Value		250	°C
Source	supplier		
Flash point			
Not applicable			
Method	ISO 2719		
Source	supplier		
Ignition temperature			
No data available			
Oxidising properties			
not classified			
Source	supplier		
	Гоприно		
Flammability			
The product is non-flammable.	aupplior		
Source	supplier		
Lower explosion limit			
none			
Source	supplier		
Upper explosion limit			
none			
Source	supplier		
Vapour pressure			
Value		1065	hPa
Reference temperature		20	°C
Source	supplier		
Value		1516	hPa
Reference temperature Source	aupplior	30	°C
Source	supplier		
Relative vapour density			
not determined			
Source	supplier Air = 1		
Comments	Air = I		
Relative density			
No data available			
Density			
Value		1,27	g/cm³
Source	supplier		
Solubility in water			
Value		1,90	g/L
Reference temperature		20	°C
Method	OECD 105		
Source	supplier		

Solubility	
No data available	

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name		CAS no.		EC no.	
1	trans-1-chloro-3,3,3-trifluoropropene		102687-65-0		-	
log F	Pow	appr.		2,2		
Refe	erence temperature			25		°C
with	reference to	pH 7,4				
Meth	nod	OECD 117				

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ECHA Source

Kinematic viscosity No data available

Particle characteristics

No data available

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. May form a flammable mixture with air at superatmospheric pressure. Polymerization can occur.

10.4 Conditions to avoid

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

10.5 Incompatible materials

strong oxidizing agents; Magnesium; Aluminium

Hazardous decomposition products

None if stored, handled and transported properly. 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 toxicit	y	
No data available		

Acute dermal toxicity No data available

Acu	Acute inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	trans-1-chloro-3,3,3-trifluoropropene		102687-65-0		-	
LC5	0			120000		ppmV
Dura	ation of exposure			4		h
State	e of aggregation	Gas				
Spe	cies	rat				
Meth	nod	OECD 403				
Soul	rce	ECHA				
Eval	Evaluation/classification Based on available data, the classification criteria are not met.			are not met.		

Skir	Skin corrosion/irritation					
No	Substance name	CAS no.		EC no.		
1	trans-1-chloro-3,3,3-trifluoropropene	102687-65	-0			
Dura	ation of exposure		4	h		
Spe	cies	rabbit				
Met	nod	OECD 404				
Sou	rce	ECHA				
Eva	luation	non-irritant				
Eva	Evaluation/classification Based on available data, the classification criteria are not met.			t.		

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Serious eye damage/irritation	
No data available	

Respiratory or skin sensitisation No data available

Ger	m cell mutagenicity					
No	Substance name	CAS no. EC no.				
1	trans-1-chloro-3,3,3-trifluoropropene	102687-65-0 -				
Туре	e of examination	In vitro bacterial reverse mutation assay				
Spe	cies	Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100;				
		Escherichia coli WP2 uvrA				
Meth	nod	OECD 471				
Sou	rce	ECHA				
Eval	luation/classification	Based on available data, the classification criteria are not met.				
Туре	e of examination	in vitro gene mutation study in mammalian cells				
Spe	cies	Human Lymphocyte				
Meth	nod	OECD 473				
Sou	rce	ECHA				
Eval	luation/classification	Based on available data, the classification criteria are not met.				
Туре	e of examination	Genotoxicity in vivo				
Sou	Source ECHA					
Eval	luation/classification	Based on available data, the classification criteria are not met.				

Rep	Reproduction toxicity					
No	Substance name	(CAS no.	EC no.		
1	trans-1-chloro-3,3,3-trifluoropropene	1	02687-65-0	-		
Rou	te of exposure	inhalational				
NOE	EC	>=	15000	ppm		
Туре	e of examination	Two-Generatio	n Reproduction Toxicity	Study		
Spe	cies	rat				
Met	nod	OECD 416				
Sou	rce	ECHA				
Eval	luation/classification	Based on avail	able data, the classifica	ition criteria are not met.		
Rou	te of exposure	inhalational				
NOE	EC	>=	15000	ppm		
Туре	e of examination	Prenatal Devel	opmental Toxicity Study	/		
Spe	cies	rat				
Met	nod	OECD 414				
Sou	rce	ECHA				
Eval	luation/classification	Based on avail	able data, the classifica	ition criteria are not met.		

Carcinogenicity No data available

STOT - single exposure No data available

STC	OT - repeated exposure					
No	Substance name		CAS no.		EC no	
1	trans-1-chloro-3,3,3-trifluoropropene		102687-65-0		-	
Rou	te of exposure	inhalational				
LOA	AEC			4000		ppm
Spe	cies	rat (male)				
Met	hod	OECD 413				
Sou	rce	ECHA				
Fva	luation/classification	Based on avai	lable data the	classification	n criteria	are not met

Aspiration hazard	
No data available	

Endocrine disrupting properties

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No data available

11.2 Information on other hazards

Other information

Higher exposure may lead to effects on the central nervous system, drowsiness and dizziness.

Cardiac sensitization (dog): Highest test concentration with no observed effect - 100000 ppm.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	city to fish (acute)					
No	Substance name	CAS no.		EC no.		
1	trans-1-chloro-3,3,3-trifluoropropene	102687-65-0		-		
LC5	0	appr.	38	mg/l		
Dura	ation of exposure		96	h ¯		
Species		Oncorhynchus mykiss				
Method		OECD 203				
Sou	rce	ECHA				
Eval	uation/classification	Based on available data, the	classification	n criteria are met.		

Toxicity to fish (chronic)

No data available

Toxi	city to Daphnia (acute)				
No	Substance name	CAS no.		EC no.	
1	trans-1-chloro-3,3,3-trifluoropropene	102687-65-0		-	
EC5	0		82	mg/l	
Dura	ation of exposure		48	h	
Species		Daphnia magna			
Method		OECD 202			
Sou	rce	ECHA			
Eval	uation/classification	Based on available data, the	classification	n criteria are met.	

Toxicity to Daphnia (chronic)

No data available

Tox	icity to algae (acute)					
No	Substance name	CAS no.		EC no.		
1	trans-1-chloro-3,3,3-trifluoropropene	102687-65-0		-		
EC5	50	>	215	mg/l		
Dura	ation of exposure		72	h		
Species		Pseudokirchneriella subcapitata				
Metl	nod	OECD 201				
Sou	Source ECHA					
Eva	luation/classification	n/classification Based on available data, the classification criteria are not met.				

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

<u></u>	ersistence and degradability				
Bio	degradability				
No	Substance name	CAS no.		EC no.	
1	trans-1-chloro-3,3,3-trifluoropropene	102687-65-0		-	
Туре	e	aerobic biodegradation			
Valu			1	%	
Dura	ation		28	day(s)	
Met	hod	OECD 301 D			

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Source	ECHA
Evaluation	not readily biodegradable

12.3 Bioaccumulative potential

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name		CAS no.		EC no	D.
1	trans-1-chloro-3,3,3-trifluoropropene		102687-65-0		-	
log F	Pow	appr.		2,2		
Reference temperature				25		°C
with reference to		pH 7,4				
Meth	nod	OECD 117				
Source		ECHA				

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
Product Name	
R-1233zd	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Other adverse effects
Product: Global warming potential within 100 years: 3.88

12.8 Other information

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	Other information
	Do not discharge into drains or waters and do not dispose of in public landfills.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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. dispose of in accordance with local regulation.

Packaging

Take empty containers to an approved waste disposal facility for recovery or disposal.

Return empty pressure vessels to the supplier.

SECTION 14: Transport information

14.1 UN number or ID number

ON Humber of ib humber	
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 trans-1-chloro-3,3,3-trifluoropropene

IMDG LIQUEFIED GAS, N.O.S.

Technical name trans-1-chloro-3,3,3-trifluoropropene

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

Technical name trans-1-chloro-3,3,3-trifluoropropene

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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

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14.4 Packing group

Label

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 <u>EU regulations</u>

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

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

VOC-value 100 %

Other regulations

REGULATION (EU) No 2024/573 on fluorinated greenhouse gases

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

National regulations

Water Hazard Class (Germany)

Class

Source Classification according to AwSV (Regulation on facilities for handling substances

that are hazardous to water).

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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.

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.

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