

with 1907/2006/EC

Trade name: R410A Product no.: R410A

Current version: 1.1.0. issued: 04.08.2025 Replaced version: 1.0.0. issued: 14.12.2023

GER

Region:

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

1.1 **Product identifier**

Trade name

R410A

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

Relevant identified uses of the substance or mixture

Industrial Use Professional use Refrigerant

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

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

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)

Press. Gas lig.; 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, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms



Signal word

Warning

Hazard statement(s)

Contains gas under pressure; may explode if heated. H280



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Precautionary statement(s)

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

Supplemental label elements

Contains fluorinated greenhouse gases.

2.3 Other hazards

Danger of suffocation by displacement of air / oxygen. Contact with the liquid can cause cold burns or frostbite. Please observe the information given in this safety data sheet.

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**

Not applicable. The product is not a substance.

3.2 **Mixtures**

Hazardous ingredients

No	Substance name	Substance name			Additional information		
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conce	entration		%	
	REACH no						
1	pentafluoroethane						
	354-33-6	Press. Gas liq.; H280	>=	50,00 - <	70,00	Vol%	
	206-557-8						
	-						
	01-2119485636-25						
2	difluoromethane						
	75-10-5	Flam. Gas 1A; H220	>=	50,00 - <	70,00	Vol%	
	200-839-4	Press. Gas liq.; H280					
	-						
	01-2119471312-47						

Full text of H- and EUH-phrases, if not already mentioned in section 2.2: see section 16.

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.

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.

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.

After ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Symptoms



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The following symptoms may occur: respiratory arrest. Shortness of breath; Light-headedness; muscle incoordination; Unconsciousness; cardiac arrhytmia; Dizziness; confusion; anesthetic effect; Skin irritation; red eyes; nausea; frostbite; 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. Do not administer any preparations of the adrenaline-ephedrine group.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

recommended: alcohol resistant foam, CO2, powders, water spray/mist; 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 fluoride; fluorine 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). 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

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

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



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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. The substance can form a combustible mixture with air at elevated pressure. 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

°C Value 50

Storage stability

Comments When stored properly, the storage life is unlimited.

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

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**

Biological limit values

No	Substance name		
1	pentafluoroethane		
	TRGS 903		
	Fluorwasserstoff und anorganische Fluorverbindungen (Fl	uoride)	
	parameter	Fluorid	
	Value	7,0	mg/g Kreatinin
	sample material	U	
	Sampling moment	b	
	TRGS 903		
	Fluorwasserstoff und anorganische Fluorverbindungen (Fl	uoride)	
	parameter	Fluorid	
	Value	4,0	mg/g Kreatinin
	sample material	U	
	Sampling moment	d	

DNEL, DMEL and PNEC values

DNFL values (worker)

	DIVEL Values (WOINCI)			
No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	pentafluoroethane			354-33-6
				206-557-8
	inhalative	Long term (chronic)	systemic	16444 mg/m³
2	difluoromethane			75-10-5
				200-839-4



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inhalative	Long term (chronic)	systemic	7035	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	pentafluoroethane			354-33-6	
				206-557-8	
	inhalative	Long term (chronic)	systemic	1753	mg/m³
2	difluoromethane			75-10-5	
				200-839-4	
	inhalative	Long term (chronic)	systemic	750	mg/m³

PNEC values

No	Substance name		CAS / EC no		
	ecological compartment	Туре	Value		
1	pentafluoroethane		354-33-6		
			206-557-8		
	water	fresh water	0,1	mg/L	
	water	fresh water sediment	0,6	mg/kg dry	
				weight	
2	difluoromethane		75-10-5		
			200-839-4		
	water	fresh water	0,142	mg/L	
	water	Aqua intermittent	1,42	mg/L	
	water	fresh water sediment	0,543	mg/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.

Respiratory filter (gas):

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	



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Form Iiquified gas			
Colour			
colourless			
Odour slightly like ether			
pH value Comments	neutral		
Boiling point / boiling range			
Value		-51,4	°C
Reference pressure		1013	hPa
Melting point/freezing point No data available			
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature No data available			
Flammability			
No data available			
Lower explosion limit			
none Reference substance	mixture R410A		
Source	supplier		
Upper explosion limit			
none Reference substance	mixture R410A		
Source	supplier		
Vapour pressure			
Value		16574 25	hPa °C
Reference temperature Value		30520	hPa
Reference temperature		50	°C
Relative vapour density			
Value Comments	Air = 1	3	
Evaporation rate	1		
Value Value	>	1	
Comments	CCI4 = 1		
Relative density			
No data available			
Density Value		1,062	g/cm³
Reference temperature		25	°C
Comments	as liquid		
Solubility in water			
Value		1,5	g/l



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Solubility	
No data available	

Part	Partition coefficient n-octanol/water (log value)						
No	Substance name		CAS no.		EC no.		
1	pentafluoroethane		354-33-6		206-557-8		
log F	Pow			1,48			
Refe	erence temperature			25	°C		
with	reference to	pH 6.34					
Meth	nod	OECD 107					
Sou	rce	ECHA					
2	difluoromethane		75-10-5		200-839-4		
log F	Pow			0,21			
Refe	erence temperature			25	°C		
with	reference to	pH 6,1					
Meth	nod	OECD 107					
Sou	rce	ECHA					

ı	Kinematic viscosity
	No data available

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

pentafluoroethane

Alkali metals; Earth alkali metals; Metal as powder; powdered metal salts

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	FC no	

354-33-6

206-557-8



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LC50	>	800000	ppmV
Duration of exposure		4	h
State of aggregation	Gas		
Species	rat		
Method	OECD 403		
Source	ECHA		

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 pentafluoroethane	354-33-6 206-557-8			
Type of examination	in vitro gene mutation study in bacteria			
Species	Salmonella typhimurium / Escherichia coli			
Method	OECD 471			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
Type of examination	In vitro Mammalian Chromosomal Aberration Test			
Species	Chinese hamster Ovary (CHO)			
Method	OECD 473			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
Route of exposure	inhalational			
Type of examination	Mammalian Erythrocyte Micronucleus Test, In vivo			
Species	mouse			
Method	OECD 474			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
2 difluoromethane	75-10-5 200-839-4			
Type of examination	in vitro gene mutation study in bacteria			
Species	Salmonella typhimurium / Escherichia coli			
Method	OECD 471			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			
Type of examination	In vitro Mammalian Chromosomal Aberration Test			
Species	Human Lymphocyte			
Method	OECD 473			
Source	ECHA			
Evaluation/classification	Based on available data, the classification criteria are not met.			

Rep	roduction toxicity			
No	Substance name	CAS no.	EC no.	
1	pentafluoroethane	354-33-6	206-557-8	
Rou	te of exposure	inhalational		
Тур	e of examination	Prenatal Developmental Toxicity Study		
Spe	cies	rabbit		
Met	nod	OECD 414		
Sou	ırce ECHA			
Eva	Evaluation/classification Based on available data, the classification criteria are not met.		n criteria are not met.	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	



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STOT - repeated exposure		
No Substance name	CAS no.	EC no.
1 pentafluoroethane	354-33-6	206-557-8
Route of exposure	inhalational	
Species	rat	
Method	OECD 413	
Source	ECHA	
Evaluation/classification	Based on available data, the classifica	tion criteria are not met.
2 difluoromethane	75-10-5	200-839-4
Route of exposure	inhalational	
Species	rat	
Source	ECHA	
Evaluation/classification	Based on available data, the classifica	tion criteria are not met.

As	piratio	n hazard
NI.	-1-4	!! ! . ! .

No data available

Endocrine disrupting properties

No data available

11.2 Information on other hazards

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)	
No data available	

Toxicity to fish (chronic)

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

Biodegradability		
No Substance name	CAS no.	EC no.
1 pentafluoroethane	354-33-6	206-557-8
Туре	aerobic biodegradation	
Value	appr. 5	%
Duration	28	d
Method	Closed Bottle Test (OECD 301D)	
Source	ECHA	
Evaluation	not readily biodegradable	
2 difluoromethane	75-10-5	200-839-4
Туре	aerobic biodegradation	
Value	5	%



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Duration		28	d
Method	OECD 301 D		
Source	ECHA		
Evaluation	not readily biodegradable		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)						
No	Substance name	•	CAS no.		EC no.	
1	pentafluoroethane		354-33-6		206-557-8	
log F	Pow			1,48		
Refe	erence temperature			25	°C	
with	reference to	pH 6.34				
Meth	nod	OECD 107				
Soul	rce	ECHA				
2	difluoromethane		75-10-5		200-839-4	
log F	Pow			0,21		
Refe	erence temperature			25	°C	
with	reference to	pH 6,1				
Meth	nod	OECD 107				
Soul	rce	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			
R410A			
PBT assessment	The product is not considered to be a PBT.		
vPvB assessment	The product is not considered to be a vPvB.		

Endocrine disrupting properties

No data available.

12.7 Other adverse effects

Other adverse effects
Contains fluorinated greenhouse gases.
Global Warming Potential (GWP): 2088

12.8 Other information

Elo Otto information		
Other information		
Do not discharge product unmonitored into the environment.		

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

UN number or ID number ADR/RID/ADN

UN3163

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IMDG UN3163 ICAO-TI / IATA UN3163

14.2 UN proper shipping name

ADR/RID/ADN LIQUEFIED GAS, N.O.S. Technical name pentafluoroethane

difluoromethane

IMDG LIQUEFIED GAS, N.O.S.
Technical name pentafluoroethane difluoromethane

ICAO-TI / IATA
Liquefied gas, n.o.s.
Technical name pentafluoroethane
difluoromethane

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)

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

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.



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

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

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).

Other regulations

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

Chemical safety assessment

Chemical safety assessments have been conducted for the substances in this mixture. For a mixture a chemical safety assessment according to (EC) 1907/2006 is not mandatory.

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

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

H220 Extremely flammable gas.

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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