

with 1907/2006/EC

Trade name: R507A

Current version: 2.2.0, issued: 21.12.2022 Replaced version: 2.1.0, issued: 09.09.2021 Region: GB

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

1.1 Product identifier

Trade name

R507A

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

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 kaeltemittel@tega.de

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 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, 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)

H280 Contains gas under pressure; may explode if heated.

Precautionary statement(s)

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P410+P403

Protect from sunlight. Store in a well-ventilated place.

Supplemental label elements

Contains fluorinated greenhouse gases (HFC-125, HFC-143a).

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		Additi	onal informatio	n	
	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	1,1,1-trifluoroethan	e				
	420-46-2	Flam. Gas 1A; H220	>=	50.00 - <	70.00	Vol%
	206-996-5	Press. Gas liq.; H280				
	-					
	01-2119492869-13					

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Flam. Gas 1A; H220: C >= 7%		-

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

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 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 person.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms

The following symptoms may occur: respiratory arrest. Shortness of breath; Light-headedness; muscle incoordination; Unconsciousness; cardiac arrhytmia; Dizziness; confusion; anesthetic effect; 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; 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. Avoid contact with skin, eyes and clothing. 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

Value < 50 °C

Storage stability

Value > 10 a

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

Do not store together with: self-reactive substances and mixtures; organic peroxides; oxidizing agents; inflammatory substances; pyrophoric substances; self-heating substances and mixtures; Materials in contact with water emit flammable gases. explosives; toxic substances and mixtures

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	pentafluoroethane			354-33-6
				206-557-8
	inhalative	Long term (chronic)	systemic	16444 mg/m³
2	1,1,1-trifluoroethane			420-46-2
				206-996-5
	inhalative	Long term (chronic)	svstemic	38800 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	1,1,1-trifluoroethane			420-46-2
				206-996-5
	inhalative	Long term (chronic)	svstemic	10700 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		



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	water	fresh water sediment	0.6	mg/kg dry
				weight
2	1,1,1-trifluoroethane		420-46-2	
			206-996-5	
	water	fresh water	350	μg/L

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

No data available

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		
slightly like ether		
pH value		
No data available		
Boiling point / boiling range		
Value	-46.7	°C
Reference pressure	1013	hPa
Melting point/freezing point		
No data available		
Decomposition temperature		
No data available		
Flash point		

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Ignition temperature				
No data available				
Oxidising properties				
none (supplier)				
Explosive properties				
The product does not have explosive properties				
Flammability				
The product is not combustible.				
Lower explosion limit				
none				
Method	ASTM E 681			
Reference substance	mixture R507			
Source	supplier			
Upper explosion limit				
none	A OTN 4 E 004			
Method Reference substance	ASTM E 681 mixture R507			
Source	supplier			
Vapour pressure				
Value		12826	hPa	
Reference temperature		25	°C	
Relative vapour density				
Value		3.5		
Comments	Air = 1			
Evaporation rate				
Value	>	1		
Comments	CCI4 = 1			
Relative density				
No data available				
Density				
Value		1.05	g/cm³	
Reference temperature	a a time dat	25	°C	
Comments	as liquid			
Solubility				
No data available				
Partition coefficient n-octanol/water (log value				
No Substance name	CA	S no.		EC no.

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name		CAS no.		EC no.	
1	pentafluoroethane		354-33-6		206-557-8	
log I	Pow			1.48		
Refe	erence temperature			25	°C	
with	reference to	pH 6.34				
Metl	hod	OECD 107				
Sou	rce	ECHA				
2	1,1,1-trifluoroethane		420-46-2		206-996-5	
log I	Pow			1.06		
Refe	erence temperature			20	°C	
Sou	rce	ECHA				

Kinematic viscosity	
No data available	

Particle characteristics



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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.

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). Reacts with strong oxidizing agents.

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidizing agents

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	1,1,1-trifluoroethane		420-46-2		206-996-5	
ATE		>		591000	ppmV	
Dura	ation of exposure			4	h	
State	e of aggregation	Gas				
Spec	cies	rat				
Meth	nod	OECD 403				
Source		ECHA				
Eval	uation/classification	Based on ava	ilable data, the c	lassificatio	n criteria are not	met.

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Geri	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		a			
Species Salmonella typhimurium / Escherichia coli		coli			
Method		OECD 471	OECD 471		
Source		ECHA	ECHA		
Evaluation/classification		Based on available data, the classification	ation criteria are not met.		
Type of examination In vitro Mamm		In vitro Mammalian Chromosomal Abe	erration Test		

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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 1,1,1-trifluoroethane	420-46-2 206-996-5
Type of examination	In vitro Mammalian Chromosomal Aberration Test
Species	Human Lymphocyte
Method	EPA OPPTS 870.5375
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
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 gene mutation study in mammalian cells
Species	Mouse lymphoma cells
Method	OECD 490
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity

No data available

Card	Carcinogenicity				
No	Substance name	CAS no.		EC no.	
1	1,1,1-trifluoroethane	420-46-2		206-996-5	
Rout	te of exposure	oral			
NOA	EL	>	300	mg/kg bw/d	
Duration of exposure			52	week/s	
Type of examination		Toxicity study			
Species		rat			
Method		Value taken from the literature			
Source ECHA					
Evaluation/classification Based on available data, the classification criteria are not met.			n criteria are not met.		

STOT - single exposure

No data available

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 classification	r criteria are not met.
2 1,1,1-trifluoroethane	420-46-2	206-996-5
Route of exposure	inhalational	
Species	rat	
Method	OECD 413	
Source	ECHA	
Evaluation/classification	Based on available data, the classification	n criteria are not met.

Aspiration hazard	
No data available	

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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	1,1,1-trifluoroethane	420-46-2		206-996-5	
LC5	0	>	40	mg/l	
Dura	ation of exposure		96	h ¯	
Species		Rainbow trout			
Method OECD 203					
Source		ECHA			
Evaluation/classification Based on available de			i, the classifica	tion criteria are not met.	

Toxicity to fish (chronic) No data available

Toxi	Toxicity to Daphnia (acute)					
No	Substance name	CAS no.		EC no.		
1	1,1,1-trifluoroethane	420-46-2		206-996-5		
EC5	0		300	mg/l		
Dura	ation of exposure		48	h		
Spe	cies	Daphnia magna				
		OECD 202				
Source ECHA						
Evaluation/classification Based on available data, the classification criteria are not met.			n criteria are not met.			

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

Biod	Biodegradability				
No	Substance name	CAS no.	EC no.		
1	pentafluoroethane	354-33-6	206-557-8		
Туре		aerobic biodegradation			
Valu	e	appr. 5	%		
Dura	ation	28	d		
Method		Closed Bottle Test (OECD 301D)			
Soul	rce	ECHA			
Eval	uation	not readily biodegradable			
2	1,1,1-trifluoroethane	420-46-2	206-996-5		
Туре		aerobic biodegradation			
Meth	nod	QSAR			
Source		ECHA			
Eval	uation	not readily biodegradable			

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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 Pow				1.48			
Reference temperature				25	°C		
with reference to		pH 6.34					
Method		OECD 107					
Source		ECHA					
2	1,1,1-trifluoroethane		420-46-2		206-996-5		
log Pow				1.06			
Reference temperature				20	°C		
Source		ECHA					

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 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
Contains fluorinated greenhouse gases.
global warming potential within a 100 year period: 3985

12.8 Other 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

14.1 Transport ADR/RID/ADN

Class 2
Classification code 2A
Hazard identification no. 20
UN number UN1078

Proper shipping name REFRIGERANT GAS, N.O.S.

Technical name pentafluoroethane 1,1,1-trifluoroethane

Tunnel restriction code C/E

Label 2.2 RID: (+13)

14.2 Transport IMDG

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22 Class UN1078 **UN** number

Proper shipping name REFRIGERANT GAS, N.O.S.

Technical name pentafluoroethane 1,1,1-trifluoroethane

F-C. S-V

EmS Label 2.2

14.3 Transport ICAO-TI / IATA

Class 2.2 UN1078 **UN** number

Proper shipping name Refrigerant gas, n.o.s. Technical name pentafluoroethane 1,1,1-trifluoroethane

Label 2.2

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

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.

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

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.

REGULATION (EU) No 517/2014 on fluorinated greenhouse gases

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

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:

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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

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.

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