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

1.1 Product identifier

Trade name/designation R 422A Art-Nr(n). 0018

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

Use of the substance/mixture

Refrigerant

Uses advised against

Control of use according to Article 13 (3) of Regulation (EU) No. 517/2017 (EU-F-Gas Regulation) must be followed.

* 1.3 Details of the supplier of the safety data sheet

Supplier

GHC Gerling, Holz & Co. Handels GmbH Ruhrstraße 113 D-22761 Hamburg Telephone +49 40 853 123 0 E-mail hamburg@ghc.de Website www.ghc.com

Department responsible for information: GHC Gerling, Holz & Co. Handels GmbH Telephone +49 40 853 123 0

E-mail (competent person): msds@ghc.de

* 1.4 Emergency telephone number

EN: Poison Information Center Mainz +49 6131 19240

* SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Classification procedure Regulation (EC) No 1272/2008 [CLP]

Press. Gas (Liq.), H280

Hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

* 2.2 Label elements

* Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS04

Signal word

Warning

Hazard statements

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

P403 Store in a well-ventilated place.

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Supplemental hazard information

EIGA0357 Asphyxiant in high concentrations. EIGA0787 Contains fluorinated greenhouse gases. Please return container with residual pressure. Withdrawal out of the liquid phase only.

* 2.3 Other hazards

* Adverse human health effects and symptoms

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level. The inhalation of gas / vapour in high concentrations may cause cardiac arrhythmia. Contact with liquid may cause cold burns/frostbite.

Other adverse effects

The substance/mixture 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.

* Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

* SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

* 3.2 Mixtures

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE		
354-33-6	206-557-8	Pentafluoroethane (R 125)	84.1 - 86.1 weight-%	Press. Gas (Liq.); H280			
811-97-2	212-377-0	1,1,1,2-Tetrafluoroethane (R 134a)	10.5 - 12.5 weight-%	Press. Gas (Liq.); H280			
75-28-5	200-857-2	isobutane	3 - 3.5 weight-%	Flam. Gas 1A; H220 Press. Gas (Liq.); H280	ATE(): 520400 ppm		
REACH No.		Substance name					
01-2119485636-25		Pentafluoroethane (R 125)					
01-2119459374-33		1,1,1,2-Tetrafluoroethane (R 134a)					

' Remark

The text of the H-and EUH-phrases is shown in section 16.

isobutane

* SECTION 4: First aid measures

01-2119485395-27

* 4.1 Description of first aid measures

* General information

Remove contaminated, saturated clothing immediately. In the event of persistent symptoms obtain medical treatment. First aider: Pay attention to self-protection!

* Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of respiratory standstill give artificial respiration by respiratory bag (Ambu bag) or respirator. Obtain medical assistance.

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Following skin contact

In case of skin contact rinse with warm water.

In case of frostbite, wash with plenty of water; do not remove clothing.

In case of frostbite rinse with lukewarm (not hot) water for at least 15 minutes. Do not remove clothing frozen to the skin.

Thaw with lukewarm water. Apply a sterile dressing. Obtain medical assistance.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical assistance.

Following ingestion

Ingestion is not considered a potential route of exposure.

4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur in case of strong exposition:

Unconsciousness

Cardiac arrhythmias

Dizziness

Nausea

Headache

Effects

Long-term inhaling of separation products may cause pulmonary oedema.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically

Do not apply drugs of the adrenaline ephedrine group.

* SECTION 5: Firefighting measures

* 5.1 Extinguishing media

Suitable extinguishing media

The product itself does not burn. The product itself does not burn. Match extinguishing measures to surrounding fire.

Extinguishing powder

Water spray jet

alcohol resistant foam

Carbon dioxide (CO2)

Unsuitable extinguishing media

Full water jet

* 5.2 Special hazards arising from the substance or mixture

Hazardous combustion productsIn case of fire formation of dangerous gases possible.

Carbon monoxide

Carbon dioxide (CO2)

Hydrogen fluoride

Carbonyl fluoride

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

* Additional information

If possible, shut off gas valves and move containers to a safe location.

Use water spray jet to protect personnel and to cool endangered containers.

Exposure to fire may cause rupture / explosion of the containers.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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* SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment.

Leave the danger area.

Keep people away and stay on the upwind side.

For emergency responders

Personal protection by wearing close-fitting protective clothing and breathing apparatus.

Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.

Remove persons to safety.

* 6.2 Environmental precautions

If possible, stop flow of product.

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For containment

If necessary, secure leaky pressure receptacles using a salvage container.

Prevent the liquid from spreading over a wide area (set up barriers, cover sewage systems).

Limit expansion of the gas (water spray jet).

For cleaning up

Leave to vapourize.

Provide adequate ventilation.

* 6.4 Reference to other sections

Disposal: see section 13

Personal protection equipment: see section 8

* SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Use only in well-ventilated areas.

Transfer and handle product only in closed systems.

Usual measures for fire prevention.

Containers' temperature should not be increased above 50 °C.

The working pressure in the receptacle must not exceed the saturation vapour pressure of the pure product resulting at a temperature of 50 °C.

Prevent cylinders from falling over.
Ensure valve protection device is correctly fitted.
Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

Open valve slowly to avoid pressure shock.

Do not allow backflow into the container.

Entering of water into the container must be prevented.

No water to valves, flanges and other fittings.

Purging of pipes and valves with inert gases - to avoid: water, solvents.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

Remove contaminated clothing and protective equipment before entering eating areas.

* 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

All regulations and local requirements for the storage of containers have to be respected.

Keep container tightly closed and in a well-ventilated place.

Containers' temperature should not be increased above 50 °C.

Prevent cylinders from falling over.

Only use containers specifically approved for the substance/product.

Information on suitable materials for receptacles and valves see ISO 11114.

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Storage class

2A Gases (except aerosol dispensers and lighters)

Materials to avoid

Do not store together with explosives.

Do not store together with flammable liquids.

Do not store together with flammable solids.
Do not store together with pyrophoric and self-heating substances.
Do not store together with oxidizing liquids or oxidizing solids.
Do not store together with oxidizing liquids or toxic solids.

Do not store together with infectious substances.

Do not store together with radioactive material. Do not store together with food or feed.

* 7.3 Specific end use(s)

Recommendation

Use in accordance with regulation (EU) No 517/2014 on fluorinated greenhouse gases. An exposure scenario is not required.

* SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
75-28-5	200-857-2	iso-Butane	Short-term(ml/m³) 1000 (1) (1) 15 minutes average value (IF)

DNEL worker 04041

CAS No.	Substance name	DNEL value	DNEL type	Remark
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a) 13936 mg/m³	long-term inhalative (systemic)	Assessment factor 7.5, repeated dose toxicity.
354-33-6	Pentafluoroethane (R 125)	16444 mg/m³	long-term inhalative (systemic)	Assessment factor 7.5, repeated dose toxicity.

DNEL Consumer

CAS No.	Substance name	DNEL value	DNEL type	Remark
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a) 2476 mg/m³	long-term inhalative (systemic)	Assessment factor 15, repeated dose toxicity.
354-33-6	Pentafluoroethane (R 125)	1753 mg/m³	long-term inhalative (systemic)	Assessment factor 25, repeated dose toxicity.

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a)	0.01 mg/L		Assessment factor 10000, assessment factor.
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a)	0.1 mg/L		Assessment factor 1000, assessment factor.
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a)	0.75 mg/kg dw	sediment, freshwater	
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a)	1 mg/L	aquatic, intermittent release	Assessment factor 100, assessment factor.
811-97-2	1,1,1,2-Tetrafluoroethane (R 134a)	73 mg/L	J 1	Assessment factor 10, assessment factor.
354-33-6	Pentafluoroethane (R 125)	0.1 mg/L	aquatic, freshwater	Assessment factor 1000, assessment factor.
354-33-6	Pentafluoroethane (R 125)	0.6 mg/kg soil dw	sediment, freshwater	
354-33-6	Pentafluoroethane (R 125)	1 mg/L	aquatic, intermittent release	Assessment factor 100,

assessment factor.

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8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Transfer and handle only in enclosed systems.

Personal protection equipment

Eye/face protectionProtective goggles according to EN 166, in case of increased risk add protective face shield.

Hand protection Safety gloves according to EN 388:

Chromate-free leather

Body protection:

Safety shoes with steel toecap.

Body covering work clothing or chemical resistant suit at increased risk.

Respiratory protection
Keep self contained breathing apparatus readily available for emergency use.
Respiratory protection necessary at:

high concentrations

Respiratory protection complying with EN 137.

Do not use any filter apparatus.

In case of rescue and maintenance activities in storage containers use environment-independent breathing apparatus because of risk of suffocation due to displacement of oxygen.

Thermal hazards

Use cold-resistant protective equipment.

Environmental exposure controls

Remark

Prevent release to the environment.

* SECTION 9: Physical and chemical properties

* 9.1 Information on basic physical and chemical properties

Physical state

Gaseous / liquefied under pressure.

Colour

colourless

Odour

faintly of ether

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point			not applicable
Boiling point or initial boiling point and boiling range	-46.5 °C pressure 1013 hPa		
flammability			none
Lower and upper explosion limit			none
Flash point			not applicable
Auto-ignition temperature			not determined
Decomposition temperature			No decomposition if used as directed.
рН			not applicable
Viscosity			not applicable

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not applicable

Method Source, Remark Value Solubility(ies) Water solubility 1 g/L (25°C) Partition coefficient n-octanol/water not applicable (log value) 12757 hPa (25°C) Vapour pressure Density and/or relative density not applicable Relative vapour density approx. 4 air = 1

* 9.2 Other information

* Information with regard to physical hazard classes

* Gases under pressure

Safety characteristics

particle characteristics

	Value	Method, Result	Source, Remark
Critical temperature	71.7 °C		

* Other information

Vapours are heavier than air.

* SECTION 10: Stability and reactivity

* 10.1 Reactivity

The product is not flammable in air under ambient conditions of temperature and pressure. When pressurised with air, oxygen or other oxidants, it may become flammable.

* 10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

* 10.3 Possibility of hazardous reactions

Must not be mixed with air or oxygen.

Danger of fire and explosion with oxidants, alkali metals and earth alkali metals.

10.4 Conditions to avoid

Heat sources / heat - risk of bursting. Ignition sources, open flames, glowing metal surfaces, etc.

* 10.5 Incompatible materials

Alkali metals Alkaline earth metal Powdered metals Oxidising agent, strong

* 10.6 Hazardous decomposition products

When handled and stored appropriately, no dangerous decomposition products are known.

* SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

* Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity			Study technically not feasible.
Acute dermal toxicity			Study technically not feasible.

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	Effective dose	Method,Evaluation	Source, Remark
Acute inhalation toxicity	LCLo > 800000 ppm Species Rat Exposure time 4 h	OECD 403	Data apply to the main component.
	CAS No.75-28-5 isobutane LC50: 520400 ppm Species Mouse Exposure time 2 h	LC50	

* Assessment/classification

Based on available data, the classification criteria are not met.

* Skin corrosion/irritation

* Other information

Study technically not feasible.

* Serious eye damage/irritation

* Other information

Study technically not feasible.

* Sensitisation to the respiratory tract

* Other information

No data available

* Skin sensitisation

* Other information

Study technically not feasible.

* Repeated dose toxicity (subacute, subchronic, chronic)

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Subacute inhalation toxicity	NOAEL ≥ 50000 ppm Species Rat	OECD 412			Data apply to the main component.
Subchronic inhalation toxicity	NOAEL ≥ 50000 ppm Species Rat	OECD 413			Data apply to the main component.
Chronic inhalation toxicity	NOAEC 50000 ppm Species Rat	OECD 453			R-134a

Assessment/classification

Based on available data, the classification criteria are not met.

* Germ cell mutagenicity

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotox icity	Species Escherichia coli	OECD 471	negative	Information concerns main component.
In vivo mutagenicity/genotox icity	Inhalation Species Mouse	OECD 474	negative	Data apply to the main component.

Assessment/classification

Based on available data, the classification criteria are not met.

* Carcinogenicity

Animal data

Allillai aata				
	Value	Method	Result / Evaluation	Remark
Carcinogenicity	inhalative NOEL(C): 10000 ppm Species Rat Exposure time 2 a	OECD 453		R-134a

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Assessment/classification

Based on available data, the classification criteria are not met.

* Reproductive toxicity

Animal data

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity	inhalative NOEL 50000 ppm Species Mouse	OECD 478		R-134a

Assessment/classification

Based on available data, the classification criteria are not met.

* STOT-single exposure

STOT SE 1 and 2

Assessment/classification

Based on available data, the classification criteria are not met.

* STOT-repeated exposure

Assessment/classificationBased on available data, the classification criteria are not met.

* Aspiration hazard

Assessment/classification Study technically not feasible.

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

Additional information

The inhalation of gas / vapour in high concentrations may cause cardiac arrhythmia. Inhalation causes narcotic effects/intoxication.

Other information

The product has not been tested. The information is derived from the properties of the individual components.

* SECTION 12: Ecological information

* 12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 450 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h	EU Method C.1	R-134a
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 980 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	EU Method C.2	R-134a
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 > 118 mg/L Species Algae Test duration 72 h	EU Method C.3	Analogous to a similar product.
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		

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Toxicity to microorganisms	Effective dose EC50 > 730 mg/L Species Pseudomonas putida Test duration 6 h	Method,Evaluation	Source, Remark R-134a	
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* 12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate 100 % Test duration 385.5 h		CAS No.75-28-5 isobutane
Biodegradation	Degradation rate 5 % Test duration 28 d	OECD 301 D	CAS No.354-33-6 Pentafluoroethane (R 125)
Biodegradation	Degradation rate 3 % Test duration 28 d	OECD 301 D	CAS No.811-97-2 1,1,1,2- Tetrafluoroethane (R 134a)

Assessment/classification
Not readily biodegradable (according to OECD criteria)

* 12.3 Bioaccumulative potential

Assessment/classification

Based on the n-octanol/water partition coefficients of the individual components of the mixture, accumulation in organisms is not expected.

* 12.4 Mobility in soil

	Value	Distribution	Transport type	Method	Remark
Half-life time in soil	CAS No.811-97- 2 1,1,1,2- Tetrafluoroethan e (R 134a) 37.26 L/kg			KOC value	
Half-life time in soil	CAS No.354-33- 6 Pentafluoroethan e (R 125) 20 L/kg			KOC value	

* 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

* 12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			See section 2.3

* 12.7 Other adverse effects

	Value	Method	Source, Remark
Ozone depletion potential (ODP):	0		
Global warming potential (GWP)	3144		

Additional ecotoxicological information

Additional information

The product has not been tested. The data are derived from the individual components of the mixture.

* SECTION 13: Disposal considerations

* 13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
140601 *	chlorofluorocarbons, HCFC, HFC

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Appropriate disposal / ProductWaste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Prevent release to the environment. No disposal via the sewage.

Disposal according to local regulations.

Appropriate disposal / Package

Transportable pressure equipment (empty, residual pressure): Return to supplier / manufacturer.

* SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN number or ID number	UN 1078	UN 1078	UN 1078
14.2 UN proper shipping name	REFRIGERANT GAS, N.O.S.	REFRIGERANT GAS, N.O.S.	Refrigerant gas, n.o.s.
14.3 Transport hazard class(es)	2.2	2.2	2.2
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

The protective measures listed in Sections 6, 7 and 8 of the Safety Data Sheet have to be considered.

14.7 Maritime transport in bulk according to IMO instruments

No carriage in bulk.

Land transport (ADR/RID)

UN number or ID number **UN 1078**

UN proper shipping name REFRIGERANT GAS, N.O.S.

Transport hazard class(es) 2.2 Hazard label(s) 2.2 Classification code 2A Packing group **Environmental hazards** No Limited quantity (LQ) 120 ml Special provisions 274, 582, 662

Tunnel restriction code C/E

* Sea transport (IMDG)

UN number or ID number **UN 1078**

UN proper shipping name REFRIGERANT GAS, N.O.S.

Transport hazard class(es) 2.2 Packing group **Environmental hazards** No Limited quantity (LQ) 120 ml Marine pollutant No EmS F-C, S-V

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Air transport (ICAO-TI / IATA-DGR)

UN number or ID number **UN 1078**

Refrigerant gas, n.o.s. UN proper shipping name

Transport hazard class(es) 2.2 Packing group Environmental hazards No

* SECTION 15: Regulatory information

* 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

To follow:

Regulation (EU) No 517/2014 on fluorinated greenhouse gases.
Regulation (EU) 2015/2068 establishing, pursuant to Regulation (EU) No 517/2014, the format of labels for products and

equipment containing fluorinated greenhouse gases.

Regulation (EU) 2015/2067 establishing, pursuant to Regulation (EU) No 517/2014, ~ certification ~ as regards stationary refrigeration, air conditioning and heat pump equipment, and ~ containing fluorinated greenhouse gases. National and local regulations concerning chemicals shall be observed.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC VOC-value ≥ 99 %

* 15.2 Chemical Safety Assessment

National regulations

Chemical safety assessments for substances in this mixture were carried out.

* SECTION 16: Other information

Key literature references and sources for dataInformation from our suppliers and data from the "GESTIS Substances Database" and the "Registered Substances" database of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] The mixture was classified by the manufacturer.

Additional information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Relevant H- and EUH-phrases (Number and full text)

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

Indication of changes

Data changed compared with the previous version