

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: 100015300 Revision date: 4/4/2023 Supersedes version of: 1/22/2021 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Name : NETTOGAZ GC+ UFI : SM10-80U0-Y00U-RQH9

Product code : 100015300

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

1.2.1. Relevant identified uses

: Professional use Main use category

Use of the substance/mixture : Internal cleaning of refrigeration and air-conditioning systems

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Other

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Switzerland

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T 00 44 1179 802520 - F 00 44 1179 802521

T 00 41 32 727 36 00 - F 00 41 32 727 36 19

ContactFDS@climalife.dehon.com

1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

 Press. Gas (Liq.)
 H280

 Eye Irrit. 2
 H319

 STOT SE 3
 H336

 Aquatic Chronic 3
 H412

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause drowsiness or dizziness. Harmful if inhaled. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :





GHS04

GHS07

Signal word (CLP)

: Warning

Contains : trans-dichloroethylene

Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.

P273 - Avoid release to the environment.

 $\hbox{P280 - Wear protective clothing/eye protection/face protection}.$

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
trans-dichloroethylene (156-60-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trans-dichloroethylene	CAS-No.: 156-60-5 EC-No.: 205-860-2 EC Index-No.: 602-026-00-3 REACH-no: 01-2120093504- 55-0006	< 50	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412
Trans-1-chloro-3,3,3-trifluoropropene substance with a Community workplace exposure limit	CAS-No.: 102687-65-0 EC-No.: 700-486-0 REACH-no: 01-2119855084- 38	> 50	Press. Gas (Liq.), H280 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Immediately rinse with plenty of water. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : Do not give the affected person anything to drink, even if he is fully conscious. Rinse mouth.

Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If possible show him

this sheet. Failing this, show him the packaging or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled. May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire fighting water from

entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

Emergency procedures : Stop the leak. Contain the spilled material by bunding. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Use only outdoors

or in a well-ventilated area. Avoid breathing spray, mist, gas, vapours. Avoid contact with

skin and eyes. Wear personal protective equipment.

Hygiene measures : Always wash hands after handling the product. Do not eat, drink or smoke when using this

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids. Strong oxidizing agents.

Incompatible materials : Sources of ignition.

Packaging materials : Packaging material: Carbon steel. Unsuitable materials: Aluminium, Magnesium and its

alloys.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA [ppm] 800 ppm (recommended)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves resistant to chemical penetration. Protective gloves made of Viton

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Colour : Colourless.

Appearance : Liquid under pressure.

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Odour : slightly ethereal.
Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not applicable
Boiling point : 20 °C (1,013 bar)
Flammability : Non flammable.

Explosive properties : Not explosive material according to EC criteria.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : Not available

Lower explosion limit : Not available : Not available Upper explosion limit Flash point : Not applicable Auto-ignition temperature : Not available Decomposition temperature : Not available : Not applicable : Not applicable Viscosity, kinematic Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available : 10 bar (20°C) Vapour pressure Vapour pressure at 50°C : Not available Density : 1.27 g/cm³ (20°C) Relative density : Not applicable Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Aluminium. Magnesium.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO2), Carbonyl halogenides, Hydrogen fluoride, Hydrogen chloride, Phosgene.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified

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Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

NETTOGAZ GC+	
ATE CLP (gases)	4500 ppm/4h
trans-dichloroethylene (156-60-5)	
LD50 oral rat	7902 – 9939 mg/kg
LD50 dermal rabbit	5000 mg/kg
LC50 Inhalation - Rat [ppm]	24100 ppm/4h
LC50 Inhalation - Rat (Vapours)	95.6 mg/l/4h

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

LC50 Inhalation - Rat [ppm]	120000 ppm Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95%
	CL: 108500 - 133800

Skin corrosion/irritation : Not classified

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : May cause drowsiness or dizziness.

STOT-single exposure	May cause drowsiness or dizziness.
LOAEL (oral, rat)	4500 mg/kg bodyweight CNS depression
trans-dichloroethylene (156-60-5)	

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Trans-1-chloro-3,3,3-trifluoropropene (102687-65-0)		
LOAEC (inhalation, rat, gas, 90 days)	4000 ppm Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)	
Aspiration hazard	· Not classified	

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and

: Harmful if inhaled.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

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Hazardous to the aquatic environment, long–term : Harmful to aquatic life with long lasting effects.

(chronic)

trans-dichloroethylene (156-60-5)	
LC50 - Fish [1]	135 mg/l
EC50 - Crustacea [1]	220 mg/l
EC50 96h - Algae [1]	48 mg/l
Trans-1-chloro-3,3,3-trifluoropropene (102687-65-0)	
LC50 - Fish [1]	≈ 38 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	82 mg/l Daphnia magna
EC50 72h - Algae [1]	> 215 mg/l Pseudokirchneriella subcapitata
NOEC chronic algae	115 mg/l

12.2. Persistence and degradability

NETTOGAZ GC+		
Persistence and degradability	May cause long-term adverse effects in the environment.	
trans-dichloroethylene (156-60-5)		
Persistence and degradability	8 % biodegradation after 28 days. Not readily biodegradable.	
Trans-1-chloro-3,3,3-trifluoropropene (102687-65-0)		
Persistence and degradability 0 % biodegradation after 28 days. Not readily biodegradable. (OECD 301D method).		

12.3. Bioaccumulative potential

NETTOGAZ GC+	
Bioaccumulative potential	Not established.
trans-dichloroethylene (156-60-5)	
Partition coefficient n-octanol/water (Log Pow)	2.06
Bioaccumulative potential	Low bioaccumulation potential.
Trans-1-chloro-3,3,3-trifluoropropene (102687-65-0)	
Partition coefficient n-octanol/water (Log Pow)	2.2

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
trans-dichloroethylene (156-60-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment. Global warming potential (GWP) 4

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID n	umber		
UN 3163	UN 3163	UN 3163	UN 3163
14.2. UN proper shippin	g name		
LIQUEFIED GAS, N.O.S. (Trans-1-chloro-3,3,3- trifluoropropene)	LIQUEFIED GAS, N.O.S. (Trans-1-chloro-3,3,3- trifluoropropene)	Liquefied gas, n.o.s. (Trans-1-chloro-3,3,3-trifluoropropene)	LIQUEFIED GAS, N.O.S. (Trans-1-chloro-3,3,3- trifluoropropene)
Transport document descr	iption		
UN 3163 LIQUEFIED GAS, N.O.S. (Trans-1-chloro- 3,3,3-trifluoropropene), 2.2, (C/E)	UN 3163 LIQUEFIED GAS, N.O.S. (Trans-1-chloro- 3,3,3-trifluoropropene), 2.2	UN 3163 Liquefied gas, n.o.s. (Trans-1-chloro-3,3,3-trifluoropropene), 2.2	UN 3163 LIQUEFIED GAS, N.O.S. (Trans-1-chloro- 3,3,3-trifluoropropene), 2.2
14.3. Transport hazard	class(es)		
2.2	2.2	2.2	2.2
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	n available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 2A

Special provisions (ADR) : 274, 660, 662
Limited quantities (ADR) : 120ml
Tank code (ADR) : PxBN(M)
Transport category (ADR) : 3
Hozard identification number (Kemler No.) : 20

Hazard identification number (Kemler No.) : 20
Orange plates :

20 3163

Tunnel restriction code (ADR) : C/E EAC code : 2TE

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Transport by sea

 Special provisions (IMDG)
 : 274

 Limited quantities (IMDG)
 : 120 ml

 EmS-No. (Fire)
 : F-C

 EmS-No. (Spillage)
 : S-V

Air transport

PCA Limited quantities (IATA) : Forbidden
PCA limited quantity max net quantity (IATA) : Forbidden
PCA packing instructions (IATA) : 200
PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 200
CAO max net quantity (IATA) : 150kg

Rail transport

Classification code (RID) : 2A

Special provisions (RID) : 274, 660, 662
Limited quantities (RID) : 120ml
Tank codes for RID tanks (RID) : PxBN(M)
Transport category (RID) : 3
Colis express (express parcels) (RID) : CE3
Hazard identification number (RID) : 20

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

trans-dichloroethylene

SECTION 16: Other information

Indication of changes:

All chapters have been modified since the previous version.

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BLV	Biological limit value		
CAS-No.	Chemical Abstract Service number		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
EC-No.	European Community number		
EN	European Standard		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
vPvB	Very Persistent and Very Bioaccumulative		
WGK	Water Hazard Class		

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

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Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H280	Contains gas under pressure; may explode if heated.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H336	May cause drowsiness or dizziness.	
H412	Harmful to aquatic life with long lasting effects.	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.