衢州市衢化中兴制冷科技有限公司 QUZHOU QUHUA ZHONGXING REFRIGERATION TECHNOLOGY CO., LTD

Quzhou Quhua Zhongxing Refrigeration Technology Co., Ltd

Material Safety Data Sheet (REFRIGERANT R507)

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name R507

Company identification see heading and/or footer
Emergency phone numbers see heading and/or footer

2 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Perparation

Components/Impurities Contains the following components:50%w/w Trifluoroethane(R143a){F+;R12}/50%w/w

Pentafluoroethane (R125)

EEC Nr(from EINECS)

Not applicable for preparations

3 HAZARDS IDENTIFICATION

Hazards identification Liquefied gas

In high concentrations may cause asphyxiation.

4 FIRST AID MEASURES

Inhalation In low concentrations may cause narcotic effects. Symptoms may include

dizziness, headache, nausea and loss of co-ordination.

In high concentrations may cause asphyxiation. Symptoms may include loss of

mobility/consciousness. Victim may not be aware of asphyxiation.

Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Skin/eye contact In case of frostbite spray with water for at least 15 minutes. Apply a sterile

dressing.Immediately flush eyes throughly with water for at least 15 minutes.

Remove contaminated clothing

Obtain medical assistance

Ingestion Ingestion is not considered a potential route of exposure.

5 FIRE FIGHTING MEASURES



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Specific hazards Exposure to fire may cause containers to rupture/explode.

Non flammable

Hazardous combustion products If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal

decomposition: Carbonyl fluoride Carbon monoxide

Hydrogen fluoride

Suitable extinguishing media All known extinguishants can be used.

Specific methods If possible, stop flow of product.

Move away from the container and cool with water from a protected position.

Special protective equipment for fire fighters
Use self-contained breathing apparatus and chemically protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate area

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to

be safe.

Ensure adequate air ventilation.

Environmental precautions Try to stop release.

Prevent from entering sewers, basements and workpits, or any place where its accumulation

can be dangerous.

Clean up methods Ventilate area.

7 HANDING AND STORAGE

Handing and storage Suck back of water into the container must be prevented.

Do not allow backfeed into the container.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature . Contact your gas supplier if in doubt.

Refer to supplier's container handling instructions. Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value for country UK:Trifluoroethane(R143a)-LTEL:1000ppm

UK:Pentafluoroethane-LTEL:1000ppm

Personal protection Ensure adequate ventilation.

Do not smoke while handling product.

Protect eyes, face and skin from liquid splashes.



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9 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight 98.8

Boiling point -46.9°C

Critical temperture 70.8°C

Relative density, gas 3.4(air=1)

Relative density,liquid 1.07(water=1)

Vapour Pressure 20°C 11.3 bar(a)

Solubility mg/l water No reliable data available.

Appearance/Colour Colourless gas
Odour Ethereal

Poor warning properties at low concentrations.

Other data Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or

below ground level.

10 STABILITY AND REACTIVITY

Stability and reactivity Stable under normal conditions.

Thermal decomposition yields toxic products which can be corrosive in the presence of

moisture.

11 TOXICOLOGICAL INFORMATION

General Pentafluoroethane-May produce irregular heart beat and nervous symptoms.

12 ECOLOGICAL INFORMATION

General Trifluoroethane(R143a)-When discharged in large quantities may contribute to the

greenhouse effect.

Pentafluoroethane(R125)-When discharged in large quantities may contribute to the

greenhouse effect.

Global warning factor 3800(CO2=1)

13 DISPOSAL CONSIDERATIONS

General Avoid discharge to atmosphere.

Do not discharge into any place where its accumulation could be dangerous.

Refer to supplier's waste gas recovery programme.

Contact supplier if guidance is required

14 TRANSPORT INFORMATION



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UN Nr 3163
Class/Div 2.2
ADR/RID Item Nr 2,2° A
ADR/RID Hazard Nr 20

Labelling ADR Label 2:non flammable non toxic gas

Other transport information Avoid transport on vehicles where the load space is not separated from the driver's

compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do

in the event of an accident or an emergency.

Before transporting product containers ensure that they are firmly secured and:

-cylinder valve is closed and not leaking

-valve outlet cap nut or plug(where provided)is correcting fitted -valve protection device(where provided)is correctly fitted

-there is adequate ventilation.

-compliance with applicable regulations.

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548 Not applicable for preparations.

EC Classification Not classified as dangerous substance.

Labelling of cylinders

-Symbols Label 2: non flammable non toxic gas

16 OTHER INFORMATION

Ensure all national/local regulations are observed.

Asphyxiant in high concentrations.

Contact with liquid may cause cold burns/frost bite.

Keep container in well ventilated place.

Do not breathe the gas.

The hazard of asphyxiation is often overlooked and must be stressed during operator training.

Users of breathing apparatus must be trained.

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.