

## Material Safety Data Sheet

**Raki® Refrigerant R507**

Product: Raki® R507

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### 1. IDENTIFICATION OF THE SUSTANCE/PREPARATION AND OF THE COMPANY

Product Name Raki® R507  
Company Identification AL SHAMLY TRADING FZE  
Emergency phone numbers 00971 4 2286643

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Preparation  
Components/Impurities Contains the following components: 50% w/w Trifluoroethane (R134a){f+,R12}/50% ww, Pentafluoroethane(R125)  
EEC (from EINECS) Not applicable for preparations

### 3. HAZARDS IDENTIFICATION

Hazards identification Liquefied gas  
In high concentrations may cause asphyxiation

### 4. FIRST AIDE MEASURES

Inhalation In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of coordination.  
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 mins. Apply a sterile dressing.  
Immediately flush eyes thoroughly with water for at least 15 minutes.  
Remove contaminated clothing.  
Obtain medical assistance.  
Ingestion is not considered a potential route of exposure.

### 5. FIRE FIGHTING MEASURES

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 maybe produced by thermal decomposition:

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Carbonyl Fluoride

Carbon monoxide

Hydrogen fluoride

Suitable extinguishing media All known extinguishants can be used .

Special methods

If possible stop flow of product

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

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

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### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate the 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, basement and workpits or any place where is accumulation can be dangerous.

Clean up methods

Ventilate area

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### 7. HANDLING AND STORAGE

Handling 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 suppliers container handling instructions.

Keep container below 50°c in a well ventilated place.

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### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limit value for country

UK:Trifluoroethane(134a)-LTEL:1000ppm

UK:Pentafluoroethane-LTEL:1000 ppm

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 temperature	70.8 °c
Relative density,gas	3.4(air=1)
Relative density,liquid	1.07 (water=1)
Vapour pressure	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.

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### 10. STABILITY AND REACTIVITY

Stability and reactivity	stable under normal conditions Thermal decomposition yields toxic product which can be corrosive in the presence of moisture.
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### 11. TOXICOLOGICAL INFORMATION

General	Pentafluoroethane – may produce irregular heart beat and nervous symptoms.
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### 12. ECOLOGICAL INFORMATION

General	Trifluoroethane (R134a)- when discharge in large quantities may contribute to the greenhouse effects. Pentafluoroethane(R125) – when discharge in large quantities may contribute to the greenhouse effects.
Global warming factor	3800(CO2=1)



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### 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 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.

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