



Pony Testing International Group

Report No.: W03023027316D~1

MSDS Report



Samples

Refrigerant R410a

Client Unit

FAIRLAND HOLDINGS CO., LTD

Client Address

SUITE 1911, NO.69, XIANLIE ROAD CENTRAL,
GUANGZHOU, CHINA

No.: W03023027316D

Code: vv8867m4

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Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Refrigerant R410a
Manufacturer: FAIRLAND HOLDINGS CO., LTD
Address: SUITE 1911, NO.69, XIANLIE ROAD CENTRAL, GUANGZHOU, CHINA.
Post Code: 510095
Tel: 0086-20-87321933
Emergency Telephone: 0086-20-87321933
Fax: 0086-20-87327767
E-Mail: sales@fairland.com.cn

Section 2 - Composition, Information on Ingredients

Chemical Name	CAS No.	Weight (%)
HFC32	75-10-5	50
HFC125	354-33-6	50

Section 3 - Hazards Identification

No harm at normal use. If contact the gas inside the steel bottle, reference as follow:

Eyes

May cause the frostbite.

Skin

The liquefied gas can cause the skin frostbite

Inhalation

May cause the frostbite. The inspiration high potency's steam is harmful, and possibly causes the heart rhythm to be anomalous. The steam can reduce in the air the ventilation quantity.

Ingestion

If contact will cause the lip and the oral cavity frostbite.

Section 4 - First Aid Measures

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Eye

Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention if irritation persists.

Skin

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. If irritation occurs, get medical attention.

Inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

Ingestion

Get medical attention.

Section 5 - Fire Fighting Measures

Flash Point: N/A.

Flammability: Non-flammable.

Extinguishing Media

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Firefighting

Wear self contained breathing apparatus and protective clothing.

Products of Combustion

Carbon oxides, hydrofluoric acid.

Section 6 - Accidental Release Measures

Steps to be taken in case material is spilled or released

Keep all sources of ignition and heat from away spill/release. Evacuate area. Avoid contact with eye. Avoid breathing vapor. Shut off source of the leak only if it is safe to do so. Absorb on fire-retardant treated dry earth, sand, or diatomaceous earth, etc. Dike if needed. Keep spilled material out of sewers, ditches and bodies of water.

Waste Disposal Method

Use Waste Disposal Methods in accordance with local rules and regulations.

Section 7 - Handling and Storage

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Handling

With the trolley for cylinder movement, prohibit the hand drag, slide or roll cylinders . Prohibit the cylinder to slip or hit each other . Firmly fixed cylinder . Access (> 3000 psig) piping or systems , connection with the pressure regulating valve. To do the identity of the bottles . Full and empty cylinders should be divided into regional liberalization alone . Using the FIFO inventory system to prevent the first filling of the cylinders be stored for long periods . Away from heat, sparks, open flames, or other ignition source.

Storage

Cylinders should be stored upright and firmly fixed to prevent the fall or knock . Cylinders should be stored in a low temperature , dry , well-ventilated environment . Away from heat , sparks , open flames , direct sunlight , other ignition source . Stored in the next material away from the fire may occur . Does not allow cylinders stored next to the flammable materials . Salt or corrosive materials is prohibited . Avoid excessive use and storage . Establishing an accurate inventory records . Avoid cylinder subject to physical damage. Keep away from any incompatible material, such as sodium/sodium oxides, potassium, calcium, alkali metals.

Section 8 - Exposure Controls, Personal Protection

If prolonged or repeated contact with this material, handle as follows

Engineering Controls

Keep workroom concentration below current applicable OSHA safety and health requirements. If necessary, configure the explosion-proof, anti-static devices.

Respiratory Protection

Appropriate vapor canister, self-contained breathing apparatus or supplied-air hose mask below current applicable OSHA safety and health requirements.

Personal Protection

Safety glasses, protective gloves, eye washer and safety shower if needed.

Section 9 - Physical and Chemical Properties

Flash Point: N/A.

Flammability: Non-flammable.

Appearance Characters: liquefied gas.

Chemical Uses: Refrigerant.

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Section 10 - Stability and Reactivity

Stability

Stable under normal conditions.

Conditions to Avoid

No data available.

Incompatibilities

Sodium/sodium oxides, potassium, calcium, alkali metals.

Hazardous Combustible Products

Carbon oxides, hydrofluoric acid.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

Acute toxicity

HFC32

Inhalation LC50 for rat: 1890 mg/m³/4h.

Section 12 - Ecological Information

Environment Effect

Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks.

Section 13 - Disposal Considerations

Disposal Treatment

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

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Section 14 - Transport Information

Land Proper Shipping Name: Refrigerant gas, n.o.s (HFC32, HFC125)

Hazard Class: 2.2.

UN Number: UN1078.

Transport Fashion: By road.

Packaging Information: Pressure bottle.

Section 15 - Regulatory Information

Law Information

- 《Dangerous Goods Regulation》
- 《Recommendations on the Transport of Dangerous Goods Model Regulations》
- 《International Maritime Dangerous Goods》
- 《Technical Instructions for the Safe Transport of Dangerous Goods》
- 《Classification and code of dangerous goods》
- 《Occupational Safety and Health Act》 (OSHA)
- 《Toxic Substances Control Act》 (TSCA)
- 《Consumer Product Safety Act》 (CPSA)
- 《Federal Environmental Pollution Control Act》 (FEPCA)
- 《The Oil Pollution Act》 (OPA)
- 《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
- 《Resource Conservation and Recovery Act》 (RCRA)
- 《Safety Drinking Water Act》 (CWA)
- 《California Proposition 65》
- 《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.

Section 16 - Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not

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assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Prepared by: *Chenmin* Checked by: *Wangzhimin* Approved by: *Hijian*

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