# **SAFETY DATA SHEET**

## **ACTROL RECOVERED REFRIGERANT**

Infosafe No.: LQ5PP ISSUED Date: 23/06/2016 Issued by: ARP

### 1. IDENTIFICATION

### **GHS Product Identifier**

ACTROL RECOVERED REFRIGERANT

### **Company Name**

ARP (ABN 93 142 654 564)

### **Address**

1-3 Annick Crescent Laverton North Vic 3026 Australia

## Telephone/Fax Number

Tel: +613 8348 9200 Fax: +613 8353 2083

### **Emergency phone number**

1800 638 556 (24hrs)

### **Emergency Contact Name**

www.actrol.com.au

## Recommended use of the chemical and restrictions on use

Recovered refrigerant gas for recycling or disposal

## 2. HAZARD IDENTIFICATION

### GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Gases under Pressure: Compressed Gas

## Signal Word (s)

WARNING

## **Hazard Statement (s)**

H280 Contains gas under pressure; may explode if heated.

## Pictogram (s)

Gas cylinder



## Precautionary statement - Storage

P410+P403 Protect from sunlight. Store in a well-ventilated place.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## **Ingredients**

Name	CAS	Proportion
Mixture of Chlorodifluoromethane and other chlorofluorocarbons	-	100 %

### 4. FIRST-AID MEASURES

### **Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

### Ingestion

Not considered a potential route of exposure.

#### Skin

Remove all contaminated clothing immediately. Clothing frozen to the skin should be thawed before being removed. Wash affected area thoroughly with soap and water. For freeze burns,

immediately flood burnt area with plenty of warm water (40 - 44 °C) and cover with a clean, dry dressing. Treat as thermal burns. Seek IMMEDIATE medical attention.

### Eye contact

If eye tissue is frozen, seek IMMEDIATE medical attention. If tissue is not frozen, immediately irrigate with copious amounts of water for at least 15 minutes. Remove contact lenses. For freeze burns, immediately irrigate with copious quantities of warm (40 - 44 °C) water for at least 15 minutes. Eyelids to be held open. Seek medical attention.

#### **First Aid Facilities**

Eyewash and normal washroom facilities.

## **Advice to Doctor**

Treat symptomatically.

## **Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use carbon dioxide, dry chemical, and foam or water mist.

### **Hazards from Combustion Products**

Non combustible material.

## **Specific Hazards Arising From The Chemical**

Cylinders may explode when heated or may become a projectile in a fire.

### **Hazchem Code**

2TE

## **Decomposition Temperature**

Not available

## **Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

### **6. ACCIDENTAL RELEASE MEASURES**

### **Emergency Procedures**

Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Use self-contained breathing apparatus (S. C.B.A) and full protective clothing to minimise exposure. Allow gas to vent safely to atmosphere, preferably in well ventilated, remote location. Monitor oxygen concentration in confined spaces. Check for leaks using pressure drop test or soapy water on joints and outlets. Shut cylinder valve to stop leak if possible and safe to do so. Check gas concentration to ensure area is safe before removing protective equipment. Damaged gas cylinders should be returned to the supplier.

### 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Use in a well ventilated area. Wear appropriate personal protective equipment and clothing to prevent exposure. Use smallest possible amounts in designated areas with adequate ventilation. Maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities. DO NOT enter confined spaces where gas may have collected. Suck back of water into the container must be prevented. Do not allow back feed 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.

### Conditions for safe storage, including any incompatibilities

Protect containers against physical damage. Store in a cool, dry, well-ventilated place, low fire risk area. Protect from extremes of temperature and weather. Do not allow any part of a cylinder to be exposed above 50°C. Storage areas should be kept clean and free from flammable materials. Ensure that containers are properly vented to prevent build up of pressure. Ensure that storage conditions comply with applicable local and national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limit values

1,1,1,2-Tetrafluoroethane: TWA: 1000 ppm, 4240 mg/m³

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eighthour working day, for a five-day week.

## **Biological Limit Values**

No biological limits allocated.

## **Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

## **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### **Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

## **Hand Protection**

Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### **Form**

Gas

### **Appearance**

Clear colourless gas

### Colour

Colourless

### Odour

Not available

## **Decomposition Temperature**

Not available

### **Melting Point**

-160°C

## **Boiling Point**

-40.8°C

## **Solubility in Water**

Partially soluble in water

### **Specific Gravity**

1.210 (20°C)

## рΗ

7

## **Vapour Pressure**

10,450 hPa (25°C)

## Vapour Density (Air=1)

Not available

## **Evaporation Rate**

Not available

## **Odour Threshold**

Not available

## **Volatile Component**

Not available

## Flash Point

Not available

## **Flammability**

Non flammable

## **Auto-Ignition Temperature**

Not available

### Flammable Limits - Lower

Not available

## Flammable Limits - Upper

Not available

### 10. STABILITY AND REACTIVITY

## **Chemical Stability**

Stable under normal conditions of storage and handling.

### **Reactivity and Stability**

Reacts with incompatible materials.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight

### **Incompatible materials**

Strong oxidising agents.

### **Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including: oxides of nitrogen, carbon dioxide and carbon monoxide.

### Possibility of hazardous reactions

Not available

## **Hazardous Polymerization**

Not available

### 11. TOXICOLOGICAL INFORMATION

### **Toxicology Information**

No toxicity data available for this material.

### Ingestion

Ingestion unlikely due to form of product.

### **Inhalation**

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

#### Claim

May be irritating to skin. The symptoms may include redness, itching and swelling.

May cause frostbite injuries to skin due to uncontrolled release of compressed gas resulting in redness, tissue destruction.

#### Eve

May be irritating to eyes. The symptoms may include redness, itching and tearing.

May cause frostbite injuries to eyes due to uncontrolled release of compressed gas resulting in stinging, tearing, blurred vision and possibly permanent damage to eyes.

## **Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

### **Skin Sensitisation**

Not expected to be a skin sensitiser.

### Germ cell mutagenicity

Not considered to be a mutagenic hazard.

### Carcinogenicity

Not considered to be a carcinogenic hazard.

### **Reproductive Toxicity**

Not considered to be toxic to reproduction.

## STOT-single exposure

Not expected to cause toxicity to a specific target organ.

## STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

### **Aspiration Hazard**

Not expected to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

No ecological data available for this material.

### Persistence and degradability

Not available

### Mobility

Not available

### **Bioaccumulative Potential**

Not available

### **Other Adverse Effects**

Not available

### **Environmental Protection**

Prevent this material entering waterways, drains and sewers.

### 13. DISPOSAL CONSIDERATIONS

### **Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

### 14. TRANSPORT INFORMATION

### **Transport Information**

This material is classified as Dangerous Goods Division 2.2 Non-flammable Non-toxic Gases.

Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1: Explosives
- Division 2.1 Flammable Gas when the Division 2.2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.
- Division 2.3 Toxic Gas when the Division 2.2 gas has a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.
- Division 4.2: Spontaneously combustible substances
- Division 5.2: Organic peroxides

### Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 2.2 UN No: 1078

Proper Shipping Name: REFRIGERANT GAS, N.O.S.

Packing Group: -EMS: F-C, S-V

Special Provisions: 274

## Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations

for transport by air. Class/Division: 2.2 UN No: 1078

Proper Shipping Name: refrigerant gas, n.o.s.

Packing Group: -

Packaging Instructions (passenger & cargo): 200

Packaging Instructions (cargo only): 200 Hazard Label: Non-flammable Gas

Special Provisions: -

### **U.N. Number**

1078

### **UN proper shipping name**

REFRIGERANT GAS, N.O.S.

### Transport hazard class(es)

2.2

**Hazchem Code** 

2TF

**Special Precautions for User** 

Not available

**IERG Number** 

06

**IMDG Marine pollutant** 

No

**Transport in Bulk** 

Not available

## 15. REGULATORY INFORMATION

### **Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

### **Poisons Schedule**

Not Scheduled

### **16. OTHER INFORMATION**

### Date of preparation or last revision of SDS

SDS created: June 2016

### References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

### **END OF SDS**

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