

1. IDENTIFICATION

Product name R-422B
Commercial name:

Synonyms -

CAS # See section 3

Product code -

Product use Refrigerant

Manufacturer/Supplier

Supplier (Manufacturer): iGas USA, Inc.
Address: 8105 Anderson Road, Tampa, FL 33764
Contact Person (E-mail): projects@igasusa.com
Telephone: (813) 443-0757
Fax: (813) 886-7900

Emergency telephone Number: Chemtrec: 1-800-424-9300

2. HAZARD(S) IDENTIFICATION

OSHA/HCS Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification


Physical hazards Gases under pressure. Compressed gas. Liquefied gas

Health Hazards Not classified

Environmental Hazards Not classified

Hazard Statements H280 contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

GHS Label Elements

Hazard Pictograms 

Signal word Warning

Precautionary Statement

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

Other Hazards Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects. Rapid evaporation of the product may cause frostbite.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS#	Concentration Percentage
Pentafluoroethane*	354-33-6	55%
1,1,1,2 - Tetrafluoroethane	811-97-2	42%
Isobutane	75-28-5	3%

*Voluntarily-disclosed non-hazardous substance.

4. FIRST-AID MEASURES

First aid procedures

General advice

In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact

Get medical attention immediately.

Skin contact

Thaw frosted parts with lukewarm water. Do not rub affected area. Get medical attention immediately.

Inhalation

If inhaled, move to fresh air. Get medical attention immediately.

Ingestion

Ingestion is not considered a potential route of exposure.

Most important symptoms and effects, both acute and delayed

Other symptoms potentially related to misuse or inhalation:

- Cardiac sensitization
- Anesthetic effects
- Light-headedness
- Dizziness
- Confusion
- Lack of coordination
- Drowsiness
- Unconsciousness
- Contact with liquid or refrigerated gas can cause cold burns and frostbite.

Protection of first-aid responders

No special precautions are necessary for first aid responders.

Notes to physician

Treat symptoms and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

- Water spray
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media:

None known.

Specific hazards during fire-fighting chemical:

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Issue date: 04/29/2019

Hazardous combustion products products:

Fluorine compounds
Carbon oxides
Hydrogen fluoride
Carbonyl fluoride

Special protective equipment for fire fighters:

Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe area.
Avoid skin contact with leaking liquid (danger of frostbite).
Ventilate the area.
Follow safe handling advice and personal protective equipment recommendations.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Methods and Material for Containment and Cleaning Up

Ventilate the area.
Local or national regulations may apply to releases and dispose of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE**Technical Measures**

Use equipment rated for cylinder pressure. Use a backflow preventative device in piping. Close valve after each use and when empty.

Local/Total Ventilation

Use only with adequate ventilation.

Advice on Safe Handling

Do not breathe gas.

- Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment.
- Wear cold insulating gloves / face shield / eye protection.
- Valve protection caps and valve outlet threaded plugs must remain in place unless container is secured with valve outlet piped to use point.
- Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.
- Prevent Backflow into the gas tank.

- Use a pressure reducing regulator when connecting cylinder to lower pressure (<3000 psig) piping or systems.
- Close valve after each use and when empty. Do NOT change or force fit connections.
- Prevent the intrusion of water into the gas tank.
- Never attempt to lift cylinder by its cap.
- Do not drag, slide or roll cylinders.
- Use a suitable hand truck for cylinder movement.
- away from heat and sources of ignition.
- Take precautionary measure against static discharges. Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage

Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Separate full containers from empty containers.

- Do Not store near combustible materials.
- Avoid area where salt or other corrosive materials are present.
- Do not expose drums to direct heat or temperature above 46°C (115°F) to avoid pressuring and possibly distorting the drums.
- Material should not be dispensed by pouring from pail/drum shipping containers containing 5 gallons or more. The use of a drum pump is recommended for dispensing from pail/drum shipping containers with 5 gallons or more, except for smaller containers where adequate ventilation can be used to manage the exposure.
- Keep in properly labeled containers.
- Keep in cool, well-ventilated place.
- Keep away from direct sunlight.
- Store in accordance with particular national regulations.

Materials to avoid

Do not store with the following product types:

- Self-reactive substances and mixtures
- Organic peroxides
- Oxidizing agents
- Flammable liquids
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures which, when in contact with water, emit flammable gases.
- Explosives
- Acutely toxic substances and mixtures
- Substances and mixtures with chronic toxicity

Further information on storage place.

Keep container tightly closed in a dry and well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control parameters:

Components	CAS #	Value Type (Form of Exposure)	Control parameters / Permissible Concentration	Basis
Pentafluoroethane	354-33-6	TWA	1,000 ppm	US WEEL
1,1,1,2-Tetrafluoroethane	811-97-2	TWA	1,000 ppm	US WEEL
Isobutane	75-28-5	TWA	800 ppm 1,900 mg/m ³	NIOSH REL
		STEL	1,000 PPM	ACGIH

Engineering measures

Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal Protective Equipment

Respiratory protection

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Individual Protection Measures

Hand Protection

Take note that the product is extremely cold, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.

Hygiene Measures

Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

Eye / Face Protection

Wear the following personal protective equipment: Face shield
Chemical resistant goggles must be worn.

Skin / Body Protection

Skin should be washed after contact.

Protective measures

Wear cold insulating gloves / face shield / eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Gas [Liquified gas].
Color	Colorless.
Odor	Slight, ether-like.
Odor threshold	No data available.
pH	7
Vapor Pressure	8,300 hPa (68 °F / 20 °C) 23,460 hPa (140 °F / 60 °C)
Melting Point/Freezing Point	No data available.
Initial boiling point and boiling range	-32.6 °F / -35.9 °C
Critical Temperature	Lowest known value: 72.4°C (162.3°F) (Pentafluoroethane)
Flash Point	Not applicable.
Burning Time	Not applicable
Burning Rate	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	No data available.
Upper Explosion limits /	Upper flammability limit.
Upper flammability limit	No data available
Lower explosion limit /	Lower flammability limit.
Lower flammability limit	No data available.
Density	0.0058 g/cm ³ (as liquid)
Relative vapor density	No data available.
Relative density	No data available.
Solubility in Water	No data available.
Partition Coefficient	n-octanol/water: Not applicable.
Auto-Ignition Temperature	> 1022 °F / > 550 °C
Decomposition temperature	Not data available.
Viscosity, Kinematic	No data available.
Explosive properties	Not explosive.
Oxidizing properties	This substance or mixture is not classified as oxidizing.
Particle size	Not applicable.

10. STABILITY AND REACTIVITY

Reactivity	Not classified as a reactivity hazard.
Chemical stability	Stable if used as directed. Follow precautionary advice and avoid incompatible materials and conditions.
Possibility of Hazardous Reactions	Can react with strong oxidizing agents.
Conditions to Avoid	Heat, flames and sparks.
Incompatible with Various Substances	Oxidizing agents
Hazardous Decomposition Products	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION.

Information on likely routes of exposure - Inhalation
 - Skin contact
 - Eye contact

Acute Toxicity: Not classified based on available information.

COMPONENTS:

Pentafluoroethane:

Acute inhalation toxicity LC50 (Rat): > 800000 ppm
 - **Exposure time:** 4 hrs
 - **Test atmosphere:** gas
 - **Method:** OECD Test Guideline 403

1,1,1,2-Tetrafluoroethane:

Acute inhalation toxicity LC50 (Rat): > 567000 ppm
 - **Exposure time:** 4 hrs
 - **Test atmosphere:** gas
 - **Symptoms:** Cardiac sensitization
 - Lowest observed adverse effect concentration (Dog): 80000 ppm
 - **Test atmosphere:** gas
 - **Symptoms:** Cardiac sensitization
 - Cardiac sensitization threshold limit (Dog): 334,000 mg/m³
 - **Test Atmosphere:** gas
 - **Symptoms:** Cardiac sensitization

Isobutane:

Acute inhalation toxicity LC50 (Rat): 570000 ppm
 - **Exposure time:** 15 min
 - **Test atmosphere:** gas

Skin Corrosion / Irritation Not classified based on available information.

COMPONENTS:

1,1,1,2-Tetrafluoroethane: **Species:** Rabbit
Result: No skin irritation

Serious eye damage / eye irritation Not classified based on available information

COMPONENTS:

1,1,1,2-Tetrafluoroethane: **Species:** Rabbit
Result: No eye irritation

Respiratory or skin sensitization

Skin Sensitization Not classified based on available information
Respiratory sensitization Not classified based on available information

COMPONENTS:

1,1,1,2-Tetrafluoroethane:
Routes of exposure: **Skin contact**
Species: Guinea pig **Result:** Negative
Species: Rat **Result:** Negative

Germ Cell Mutagenicity

Not classified based on available information.

COMPONENTS:

Pentafluoroethane:

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: Negative

Genotoxicity in vivo

Test Type: Mammalian erythrocyte micronucleus test (in vivo)
Cytogenetic assay
Species: Mouse
Application Route: inhalation (gas)
Method: OECD Test Guidelines 474
Result: Negative

**1,1,1,2-Tetrafluoroethane:
Germ cell mutagenicity
Assessment**

Weight of evidence does not support classification as a germ cell mutagen.

Isobutane

Genotoxicity in vitro

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guidelines for 473
Result: Negative
Remarks: Based on data from similar materials

Test Type: Bacterial reverse mutation assay (AMES)
Result: Negative
Remarks: Based on data from similar materials

Genotoxicity in vivo

Test Type: Mammalian erythrocyte micronucleus test
(in vivo cytogenetic assay)
Species: Rat
Application Route: Inhalation (gas)
Method: OECD Test Guidelines 474
Result: Negative
Remarks: Based on data from similar materials.

Carcinogenicity

Not classified based on available information.

COMPONENTS:

1,1,1,2-Tetrafluoroethane:

**Carcinogenicity Assessment
IARC**

Weight of evidence does not support classification as a carcinogen
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Pentafluoroethane:

Effects on fertility

Test Type: One-generation reproduction toxicity study
Species: Rat
Application Route: Inhalation (vapor)
Result: Negative
Remarks: Based on data from similar materials

Effects on fetal development

Test Type: Embryo-fetal development
Species: Rat
Application Route: Inhalation (gas)
Method: OECD Test Guideline 414
Result: Negative

1,1,1,2-Tetrafluoroethane:

**Reproductive toxicity
Assessment**

Weight of evidence does not support classification for reproductive toxicity.

Isobutane:

Effects on fertility

Test Type: Combined repeated dose toxicity study with the reproduction/development toxicity test
Species: Rat
Application Route: Inhalation (gas)
Method: OECD Test Guideline 422
Result: Negative

Effects on fetal development

Test Type: Combined repeated dose toxicity study with the reproduction/development toxicity screening test.
Species: Rat
Application Route: Inhalation (gas)
Method: OECD Test Guideline 422
Result: Negative

STOT-Single exposure

Not classified based on available information.

COMPONENTS:

Isobutane

Assessment

May cause drowsiness or dizziness.

STOT-Repeated exposure

Not classified based on available information.

COMPONENTS:

1,1,1,2-Tetrafluoroethane:

Assessment

No significant health effects observed in animals at concentrations of 250 pmV/6h/d or less

Repeated dose toxicity

Pentafluoroethane:

Species: Rat
NOAEL : >=50000 ppm
Application Route: Inhalation (gas)
Exposure time: 13 weeks
Method: OECD Test Guideline 413

1,1,1,2-Tetrafluoroethane:

Species: Rat
NOAEL: 50000 ppm
LOAEL: >50000 ppm
Application Route: Inhalation (gas)
Exposure time: 90 d
Method: OECD Test Guideline 413
Remarks: No significant adverse effects were reported

Isobutane:

Species: Rat
NOAEL: >= 9000 ppm
Application Route: Inhalation (gas)
Exposure time: 6 weeks
Method: OECD Test Guideline 422

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

COMPONENTS:

Pentafluoroethane:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): 450 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.
Remarks: Based on data from similar materials.

Toxicity to daphnia and other
Aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 980 mg/l
Exposure time: 48 h
Method: Directive 67/548/EEC, Annex V, C.2.
Remarks: Based on data from similar materials.

Toxicity to algae

EC50 (Pseudokirchneriella subcapitata (green algae)): >14 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials.

1,1,1,2-Tetrafluoroethane:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): 450 mg/l
Exposure time: 96 h

Toxicity to daphnia and other
Aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 980 mg/l
Exposure time: 48 h

Toxicity to algae

ErC50 (algae): 142 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials.

NOEC (Pseudokirchneriella subcapitata (green algae)): >13.2 mg/l
Exposure time: 72 h

Remarks: Based on data from similar materials.

Persistence and degradability

COMPONENTS:

Pentafluoroethane:

Biodegradability

Result: Not readily biodegradable.

Biodegradation: 5%

Exposure time: 28 d

Method: OECD Test Guideline 301D

1,1,1,2-Tetrafluoroethane:

Biodegradability

Result: Not readily biodegradable.

Isobutane:

Biodegradability

Result: Readily biodegradable.

Remarks: Based on data from similar materials.

Bioaccumulative potential

COMPONENTS:

Pentafluoroethane:

Partition coefficient:

n-octano/water:

Pow 1.48 (77 °F / 25 °C)

1,1,1,2-Tetrafluoroethane:

Partition coefficient:

n-octano/water:

log Pow 1.06

Isobutane:

Partition coefficient:

n-octano/water:

log Pow 2.8

Mobility in soil

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.
Empty pressure vessels should be returned to the supplier. If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN NUMBER

UN3163

Proper Shipping Name

LIQUIFIED GAS, N.O.S.

(Pentafluoroethane, 1,1,1,2-Tetrafluoroethane)

Class

2.2

Packing Group

Not assigned by regulation.

Labels

2.2

IATA-DGR
UN/ID No. UN3163
Proper Shipping Name LIQUEFIED GAS, N.O.S.
(Pentafluoroethane, 1,1,1,2-Tetrafluoroethane)
Class 2.2
Packing Group Not assigned by regulation.
Labels Non-flammable, non-toxic gas
Packing instruction
Cargo aircraft 200
Passenger aircraft 200

IMGD-Code
UN/ID No. UN3163
Proper Shipping Name LIQUEFIED GAS, N.O.S.
(Pentafluoroethane, 1,1,1,2-Tetrafluoroethane)
Class 2.2
Packing Group Not assigned by regulation.
Labels 2.2
EmS Code F-C, S-V
Marine pollutant No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code **Not applicable for product as supplied**

Domestic Regulations

49 CFR
UN/ID/NA NUMBER UN3163
Proper Shipping Name LIQUEFIED GAS, N.O.S.
(Pentafluoroethane, 1,1,1,2-Tetrafluoroethane)
Class 2.2
Packing Group Not assigned by regulation.
Labels NON-FLAMMABLE GAS
ERG Code 126
Marine pollutant No

Special precautions for user The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

EPCRA – Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a Section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Gases under pressure
Simple Asphyxiant

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

U.S. State Regulations

Pennsylvania Right to Know

Pentafluoroethane 354-33-6
1,1,1,2-Tetrafluoroethane 811-97-2
Isobutane 75-28-5

16. OTHER INFORMATION

HMIS® IV Ratings

Health: / 0
 Flammability: 1
 Physical hazard: 3

NFPA 704 Ratings

Health: 2
 Flammability: 1
 Instability: 0

Special Hazard:

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Before use, read Chemours safety information.

For further information contact the local Chemours office or nominated distributors. All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Full text of other abbreviations

ACGIH	USA. ACGIH THRESHOLD LIMIT VALUES (TLV)
NIOSH REL	USA. NIOSH Recommended Exposure Limits
US WEEL	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / STEL	Short-Term exposure limit
NIOSH REL / TWA	Time-weighted average concentration for up to a 10-Hour workday during a 40-hour workweek.
US WEEL / TWA	8-hr TWA

- AICS - Australian Inventory of Chemical Substances
- ASTM - American Society for the Testing of Materials
- bw - Body weight
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- CMR - Carcinogen, Mutagen or Reproductive Toxicant
- DIN - Standard of the German Institute for Standardization
- DOT - Department of Transportation; DSL - Domestic Substances List (Canada)
- ECx - Concentration associated with x% response
- EHS - Extremely Hazardous Substance
- ELx - Loading rate associated with x% response
- EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan)
- ErCx - Concentration associated with x% growth rate response
- ERG - Emergency Response Guide
- GHS - Globally Harmonized System
- GLP - Good Laboratory Practice
- HMIS - Hazardous Materials Identification System
- IARC - International Agency for Research on Cancer
- IATA - International Air Transport Association
- IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
- IC50 - Half maximal inhibitory concentration
- ICAO - International Civil Aviation Organization
- IECSC - Inventory of Existing Chemical Substances in China
- IMDG - International Maritime Dangerous Goods
- IMO - International Maritime Organization
- ISHL - Industrial Safety and Health Law (Japan)
- ISO - International Organization for Standardization
- KECI - Korea Existing Chemicals Inventory
- LC50 - Lethal Concentration to 50 % of a test population
- LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
- MARPOL - International Convention for the Prevention of Pollution from Ships
- MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified
- NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration

NO(A)EL - No Observed (Adverse) Effect Level
NOELR - No Observable Effect Loading Rate
NTP - National Toxicology Program
NZIoC - New Zealand Inventory of Chemicals
OECD - Organization for Economic Co-operation and Development
OPPTS - Office of Chemical Safety and Pollution Prevention
PBT - Persistent, Bioaccumulative and Toxic substance
PICCS - Philippines Inventory of Chemicals and Chemical Substances
(Q)SAR - (Quantitative) Structure Activity Relationship
RCRA - Resource Conservation and Recovery Act
REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals
RQ - Reportable Quantity
SADT - Self-Accelerating Decomposition Temperature
SARA - Superfund Amendments and Reauthorization Act
SDS - Safety Data Sheet
TCSI - Taiwan Chemical Substance Inventory
TSCA - Toxic Substances Control Act (United States)
UN - United Nations
UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods
vPvB - Very Persistent and Very Bioaccumulative

17. DISCLAIMER

iGas USA, Inc. believes that the information and recommendations contained herein (including data and statements are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other methods of use of the product and of the information referred to herein are beyond the control of iGas USA, Inc. iGas USA, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.