



EMERGENCY GUIDE

**RLX INDUSTRIAL IMPORTADORA
LTDA**
Av. Abiurana, 450, Bloco C1
CEP: 69075-010
Manaus-AM
Emergency: (51) 3516-9479

Proper shipping name

ISOBUTANE

Comercial Name

R600a

Risk number: 23
UN Number: 1969
Risk class or subclass: 2.1
Description of the risk
class or subclass:
Gases
Packing group: -

Aspect:
Liquefied gas, under pressure, colorless. Incompatible for products of subclass 2.3 that show toxicity by inhalation LC50 <1000 ppm, products of subclass 4.1 with the following UN numbers: 3221, 3222, 3231 and 3232, products of subclass 5.2 with the following UN numbers: 3101, 3102, 3111 and 3112, products of subclass 6.1 of packing group I.

EPI for Exclusive Use for the emergency care team:
Wear gloves and boots made of nitrile rubber, PVC or other impermeable material, fully encapsulated clothes, compatible with the product transported and self-contained breathing apparatus. The driver's PPE is specified in ABNT NBR 9735.

RISKS

Fire:
Highly flammable: can ignite easily with heat, sparks or flames. Vapors can form explosive mixtures with air. Vapors can travel to an ignition source and cause a flame to recede. Most of these vapors are heavier than air, being able to spread through the soil and accumulate in lower or closed areas, such as basements, culverts, etc. Explosion hazard in closed, open or manhole environments. Drainage to the sewer network may create a risk of fire or explosion. Containers can explode when heated.

Health:
Inhalation or contact with the material can irritate or cause skin and eye burns. Fire can produce irritating, corrosive or toxic gases. Vapors may cause dizziness or suffocation. Waste dilution or fire control water can cause pollution.

Environment:
Waste dilution or fire control water can cause pollution. The product is toxic to fish and other aquatic organisms. Insoluble in water.

IN CASE OF ACCIDENT

Leak:
Eliminate all sources of ignition. Prevent sparks or flames. Do not smoke. All equipment used in handling the product must be electrically grounded. Do not touch or walk over spilled product. Stop the leak, if this can be done without risk. Prevent product from entering drains, ventilation systems or confined areas. Foam can be used to suppress vapors. Absorb spilled material with sand, dry earth or non-combustible and inert material and store in suitable containers. Use non-sparking tools to collect the absorbed material.

Fire:
ATTENTION: All of these products have a very low flash point. The use of water jet can be ineffective in fighting fire. For mixtures containing high concentration of alcohol or polar solvent the alcohol resistant foam may be more efficient. SMALL FIRE: Use dry chemical, CO₂, water jet or normal foam. LARGE FIRE: Use water spray or fog or normal foam. Do not use a jet directly. Move containers away from the fire area, if this can be done without risk. Cool the containers exposed to the flames laterally with plenty of water, even after the fire has gone out. Withdraw immediately if you hear the increasing sound of the safety / relief devices or in case of discoloration of the tank due to fire. Always stay away from tanks surrounded by flames. In case of intense fire, use a hose with fixed supports or a monitor tube. If it is not possible, leave the area and let the material burn.

Pollution:
Avoid draining the product into water courses, rivers, hydrographic basins or storm drains. The material used for containment must be collected for later decontamination and disposal. Activate the local water supply and civil defense agency.

People Involvement:
Remove the victim to fresh air. Request emergency medical assistance. If the victim is not breathing, give artificial respiration. Administer oxygen if the victim is breathing hard. Remove and isolate contaminated clothing and shoes. In case of contact with the substance, immediately wash your skin or eyes under running water for at least 20 minutes. Wash your skin with soap and water. In case of burns, immediately cool the skin with cold water for as long as necessary. Do not remove clothing that is attached to the skin. Keep the victim at rest and warm. Make sure that the medical staff knows the hazards of the product and that they have taken appropriate measures to protect themselves.

Information to the doctor:
Wash the body parts affected by the material with plenty of water. Treat symptomatically.

Comments:
The instructions to the driver in case of an emergency are described exclusively on the transport envelope.

USEFUL PHONES

STATE	ENVIRONMENTAL DEPARTMENT	STATE	ENVIRONMENTAL DEPARTMENT
Acre	(0xx68) 3224-3990	Paraíba	(0xx83) 3218-4359
Alagoas	(0xx82) 3315-2680	Paraná	(0xx41) 3304-7771
Amapá	(0xx96) 3212-5302	Pernambuco	(0xx81) 3184-7900
Amazonas	(0xx92)3642-4724	Piauí	(0xx86) 3216-2033
Bahia	(0xx71) 3117-1200	Rio de Janeiro	(0xx21) 2334-7910
Ceará	(0xx85) 3101-1236	Rio Grande do Norte	(0xx84) 3232-2110
Distrito Federal	(0xx61) 3214-5646	Rio Grande do Sul	(0xx51) 3288-8100
Espírito Santo	(0xx27) 3636-2500	Rondônia	(0xx69) 3216-1059
Goiás	(0xx62) 3265-1300	Roraima	(0xx95) 3198-2048
Maranhão	(0xx98) 3194-8900	Santa Catarina	(0xx48) 3229-3729
Mato Grosso	(0xx65) 3613-7200	São Paulo	(0xx11) 3133-3000
Mato Grosso do Sul	(0xx67) 3318-5600	Sergipe	(0xx79) 3179-7300
Minas Gerais	(0xx31) 3298-6200	Tocantins	(0xx62) 3218-1074
Pará	(0xx91) 3184-3321		

193 – FIRE DEPARTMENT
190 – MILITARY POLICE

199 – CIVIL DEFENSE
191 – HIGHWAY PATROL

EMERGENCY PHONE: 0800 11 8270 (24h)
0800 424 9300 (Exterior)