

Revised date 01.08.2024

MATERIAL SAFETY DATA SHEET HC 600A

CHEMICAL PRODUCT

Corporate MSDS Number	: TAB-004002
Composition	: HC 600A (100%)
Chemical Formula	: C ₄ H ₁₀
Chemical Name	: Isobutene
CAS#	: 75-28-5
UN#	: 1969
HS Code	: 271113
Hazard	: 2.1

COMPANY IDENTIFICATION

TABRIGAS Egypt
Port Said Free Zone area - Egypt
Sunday - Thursday (9:00 - 17:00)
00 202 2734 22 77 / 78 / 79
info@tabrigas.com
www.tabrigas.com

PRODUCT USE

Refrigerant

TRADE NAMES & SYNONYMS

R 600A
HC 600A
Isobutene

HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE

INGESTION:

Aspiration Hazard!

INHALATION:

Inhalation of vapor may produce anesthetic effects and a feeling of euphoria. Prolonged. Overexposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness, and death from asphyxiation, depending on concentration and time of exposure.

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SKIN CONTACT:

Contact with evaporating liquid can cause frostbite.

EYE CONTACT:

Liquid can cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.

FIRST AID MEASURES

INGESTION:

Do not induce vomiting. Contact a physician immediately.

INHALATION:

Remove to fresh air. If breathing has stopped, restore breathing at once. Administer oxygen and get medical help.

SKIN CONTACT:

For liquid contact, warm areas gradually and get medical attention if there is evidence of tissue damage. Flush the area with plenty of water.

EYE CONTACT:

For liquid contact, irrigate with running water for a minimum of 15 minutes. Consult a physician immediately if frostbite occurs.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT (METHOD)	: -117 °F (Open Cup)
UPPER EXPLOSIVE LIMIT (vol.) gas in air	: 8.4%
LOWER EXPLOSIVE LIMIT (vol.) gas in air	: 1.8%

EXTINGUISHING MEDIA:

Dry Chemical Extinguisher (B-C), Water

SPECIAL FIRE FIGHTING PROCEDURES:

Stop the release of materials if possible. Cool the vapor space of the storage container with water spray. Avoid accumulation of unburned materials. Remove personnel in the general area. Observe maximum isolation when extinguishing the fire. Expansion of liquid and change of state from liquid to vapor will allow the combustible mixture to encompass a large area.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground or may be moved by ventilation systems and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid sources of ignition-Ventilate area. Use water fog to evaporate or ventilate. Protect the body against contact with liquid. If confined space - Use self-contained breathing apparatus. Consult local fire authorities

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HANDLING AND STORAGE

Comply with state and local regulations covering liquefied petroleum gases.
Comply with NFPA Pamphlet #58. Store small containers in well-ventilated areas, away from heat or ignition sources. Prohibit smoking in areas of storage or use.

EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION

Mechanical : Provide as needed to keep concentration in air below TLV and LEL
Local Exhaust : Continuous ventilation recommended
Special : Explosion-proof fans and motors

RESPIRATORY PROTECTION

: NIOSH-approved self-contained breathing apparatus

PROTECTIVE GLOVES

: Impervious, insulated gloves recommended

EYE PROTECTION

: Face shield or goggles recommended

OTHER

: Impervious clothing for prolonged or repeated contact

PHYSICAL AND CHEMICAL PROPERTIES

ODOR & APPEARANCE : Clear, Colorless liquefied gas with a sweet Petroleum odor
SOLUBILITY IN WATER @ 70 Deg. F : 0.008%
SPECIFIC GRAVITY (H₂O=1.00) : 0.564
BOILING RANGE : 10.9 Deg. °F
PRESENT VOLATILE BY VOLUME : 100%
VAPOR PRESSURE @ 70 Deg. F : 31 psig
VAPOR DENSITY (air = 1.00) : 2.006
EVAPORATION RATE : > 1 (Ethyl Ether = 1.0))

STABILITY AND REACTIVITY

STABILITY:

This product is stable

INCOMPATIBILITY (Material to Avoid):

None

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide, Volatile Hydrocarbon Vapors

HAZARDOUS POLYMERIZATION:

Cannot occur

CONDITIONS TO AVOID:

High Heat, Sparks & Open Flames

ECOLOGICAL INFORMATION

No data given



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DISPOSAL CONSIDERATIONS

- (1) Mechanical recovery
- (2) Flare-Off at a safe location (Vapors)
- (3) Exhaust to the atmosphere in a safe location (No open flames)

OTHER DISPOSAL CONSIDERATIONS:

Disposal must comply with federal, state, and local disposal laws.

TRANSPORTATION INFORMATION

US DOT PROPER SHIPPING NAME	: Petroleum Gases, Liquefied
US DOT HAZARD CLASS	: 2.1
US DOT ID NUMBER	: UN 1969
LABELED/PLACARDED	: Flammable Gas

REGULATORY INFORMATION

The ingredients listed in section 2 are reported/included in the U.S. TSCA inventory and Canadian domestic substance list.

The product is defined by OSHA in 29 CFR 1910.1200c as a flammable gas. Use of this product may require compliance with 29 CFR 1910.119, process safety management of highly hazardous chemicals.

OTHER INFORMATION

HMIS Classification:
Health - 1
Flammability - 4
Reactivity - 0

End of MSDS
(Version August 2024)

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HFC