



Egyptian Ethylene and Derivatives Company "EHYDCO"

1,3 BUTADIENE TECHNICAL DATA SHEET

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PRODUCT Details

Trade Name: 1,3 Butadiene

Chemical Name: 1,3 Butadiene

Chemical Family: Diolefins

Physical Properties

Density: 614 kg/m³ @ 25 °C

Flash point: -76.1 °C (TCC ASTM D56)

Boiling point: -4.4 °C @ 0 kg/cm²

Vapor pressure: 240 kPa

Appearance: Gas or low boiling-point liquid.

Marpol Details

IMO Ship type: 2G \ 2PG

OSHA Hazards:

- Flammability
- Carcinogenicity
- Respiratory effects
- Skin and Eye irritation
- Acute Toxicity



Transportation Information

CFR

Proper shipping name: **BUTADIENES, STABILIZED**

UN-No. : **1010**

Class : **2 - Gases**

Packing group : **I**

Hazard inducer : **-High temperature**

- high pressure

- incompatible material

-Mechanical impact

- Polymerization

TDG

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IATA Cargo transport



UN-No. : **1010**
Description of the goods : **BUTADIENES, STABILIZED**
Class : **2**
Packing group : **I**
ICAO-Lables : **2**
Civil Aeronautics Law : **Gases under pressure/Gases flammable under pressure**

1,3 -Butadiene Composition\ information on ingredients

Properties	Unit	Limit	Spec.	Note
1,3 -Butadiene	wt. %	min.	99.7	
1,2 -Butadiene	wppm	max.	20	
Butadiene Dimer	wt. %	max.	0.005	
C5's	wppm	max.	50	
Isoprene	wppm	max.	10	
Total Acetylene	wppm	max.	20	All Acetylene
Vinyl Acetylene	wppm	max.	5	
Non-Volatile Residue	wt. %	max.	0.01	
Carbonyls as Acetaldehyde	wppm	max.	10	
Peroxides as H ₂ O ₂	wppm	max.	5	
Inhibitor	wppm	max.	50-150	As treatment
Oxygen in vapor	vol. %	max.	0.1	
Water	wppm	max.	150	
Solvent	wppm	max.	5	
Appearance			Clear	



USES OF BUTADIENE

1,3-Butadiene is a major product of the petrochemical industry. Its simple chemical structure combined with its low molecular weight and high chemical reactivity makes it a very useful building block in the synthesis of other materials.

Butadiene is used primarily as a monomer in the production of a wide range of polymers and copolymers. It is also used as an intermediate in the production of several chemicals.

Safety Information and incident Reporting

Safety information: Refer the SDS (Safety Data Sheet).

Incident Reporting: All incidents shall be reported in accordance with regulations and charter party requirements.

Abbreviations

IMO: International Maritime Organization

CFR: Code of Federal Regulations

TDG: Transportation of Dangerous Goods

IATA: International Air Transportation Association