

Linde Gas (216) 642-6600
P.O. Box 94737
Cleveland, OH 44101-4737
www.us.lindegas.com

**MATERIAL
SAFETY
DATA SHEET**
No. 3

SECTION 1. PRODUCT INFORMATION

NAME: Allene

TRADE NAME AND SYNONYMS: Allene; Propadiene; Propadiene, stabilized (D.O.T.)

APPEARANCE AND ODOR: Colorless liquid and vapor with a sweet olefinic odor

CHEMICAL NAME AND SYNONYMS: Propadiene; Allene

CAS #: 463-49-0

DOT I.D. No: UN 2200

DOT HAZARD CLASS: Division 2.1

CHEMICAL FORMULA: CH_2CCH_2 or C_3H_4

CHEMICAL FAMILY: Diolefin

ISSUE DATE AND REVISIONS: Revised June 2006

SECTION 2. HEALTH HAZARD DATA

EMERGENCY OVERVIEW: Allene is a flammable gas approximately 1½ times heavier than air.

Inhalation: It has a very mild anesthetic effect; however, the major property is the exclusion of an adequate supply of Oxygen to the lungs.

Contact with the rapidly evaporating liquid could cause frostbite or cryogenic "burns".

TIME WEIGHTED AVERAGE EXPOSURE LIMIT: Allene should be defined as a simple asphyxiant, however there is no listing (ACGIH 2005). OSHA 2005 has no listing for Allene.

Oxygen levels should be maintained at greater than 19.5 Molar percent at normal atmospheric pressure ($p\text{O}_2 > 148$ torr).

TOXICOLOGICAL PROPERTIES: Breathing high concentrations causes a very mild anesthetic effect.

Frostbite effects are the change in the color of the skin to gray or white possibly followed by blistering.

Allene is not listed in the IARC, NTP or by OSHA as a carcinogen or potential carcinogen.

Persons in ill health where such illness would be aggravated by exposure to Allene should not be allowed to work with or handle this product.

RECOMMENDED FIRST AID TREATMENT: PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO ALLENE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS AND BE COGNIZANT OF EXTREME FIRE AND EXPLOSION HAZARD.