

# 1,3-BUTADIENE -- Chemical Fact Sheet

<i>What is it?</i>	1,3-Butadiene is a colorless gas with a characteristic, gasoline-type odor. Its odor allows it to be readily detected at low concentrations. 1,3-Butadiene is extremely flammable and an irritant. Its reactivity makes it an ideal chemical for use in synthesizing other chemicals.
<i>Where does it come from?</i>	1,3-Butadiene is a byproduct of Ethylene manufacturing.
<i>What are the common uses for it?</i>	Production of latex polymers to coat glossy paper, such as magazines Production of rubber Production of plastics Manufacture of chemicals Copolymer for acrylics
<i>How is it transported?</i>	1,3-Butadiene is transported by railcar.
<i>How is it stored?</i>	1,3-Butadiene is stored in pressurized tanks.

## Health Hazards from Exposure

<i>Exposure Route</i>	<i>Symptoms</i>	<i>First Aid</i>
Inhalation (low concentrations)	Irritates nose, throat and lungs Sore throat Coughing	Remove to fresh air. Seek medical attention.
Inhalation (high concentrations & prolonged exposure)	Coughing, sore throat Shortness of breath Blurred vision Headache, dizziness Nausea Loss of coordination Fatigue Unconsciousness, death	Remove to fresh air, get medical attention including oxygen administration. Initiate CPR if breathing has stopped.
Eyes	Severe eye irritant Burning Blurred vision Watering of eyes Swelling	Rinse eyes with water for at least 5 minutes. Seek medical attention.
Skin	Mild to moderate skin irritant Burning/discomfort Redness Swelling	Wash skin with soapy water. Seek medical attention.

Contra Costa RMP/CalARP Companies<sup>2</sup>  
that Use, Store or Manufacture this Chemical

The Dow Chemical Company

### For More Information

Poison Control Center (800) 876 - 4766	California Health Service Department Sacramento (916) 540 - 3014	Contra Costa County Health Services – Hazardous Materials Department 4333 Pacheco Blvd Martinez, CA 94553 (925) 646 – 2286
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### Web Sites on the Internet

US Environmental Protection Agency and Technology Transfer Network	<a href="http://www.epa.gov/swerceppo">www.epa.gov/swerceppo</a> <a href="http://www.epa.gov/ttn/uatw/hapindex.html">www.epa.gov/ttn/uatw/hapindex.html</a>	(800)535–0202 EPCRA Hotline (919)541–0888
National Institute of Occupational Safety & Health and the Agency for Toxic Substances and Disease Registry	<a href="http://www.cdc.gov/niosh">www.cdc.gov/niosh</a> <a href="http://atsdr1.atsdr.cdc.gov:8080/hazdat.html">http://atsdr1.atsdr.cdc.gov:8080/hazdat.html</a>	(800)477–1544
Occupational Safety and Health Administration	<a href="http://www.osha.gov">www.osha.gov</a> <a href="http://www.osha-slc.gov/ChemSamp_data">www.osha-slc.gov/ChemSamp_data</a>	(202)219–8151 or (202)219–7056
ChemFinder®	<a href="http://Chemfinder.camsoft.com">http://Chemfinder.camsoft.com</a>	(800)315–7300
International Safety Cards	<a href="http://siri.org/msds/mf/cards/list.html">http://siri.org/msds/mf/cards/list.html</a>	
MSDS Sites	<a href="http://www.chem.utah.edu/msds">www.chem.utah.edu/msds</a>	

*This is a brief summary of information on this chemical. For more detailed information you can obtain a Material Safety Data Sheet from Contra Costa Health Services. You can also call any of the companies listed above for more information.*

<sup>1</sup> This information was obtained from the websites listed above.

<sup>2</sup> The companies listed were obtained from Business Plans submitted to Contra Costa County Health Services Department.