

Flammables

Chemical Fact Sheet

<i>What is it?</i> ¹	In Contra Costa County, the flammable gases in use are Methane, Propane and Butane. These gases are invisible and have a very slight sweet, oil-like odor. They are very flammable.
<i>Where does it come from?</i>	Flammable Gases are naturally occurring. They are produced from decaying plant material in swamps and can be found from underground sources. They are also a by-product of petroleum refining. People and animals can also produce Methane during digestion.
<i>What are the common uses for it?</i>	Sources of heat Fuel for industrial processes Cooking, Barbecues Heating homes, farms, businesses “Clean-burning” cars Cigarette lighters
<i>How is it transported in CCC?</i>	Flammable Gases can be transported by truck, railcar, barge or pipeline.
<i>How is it stored in CCC?</i>	Flammable Gases are stored in pressurized tanks.

Health Hazards from Exposure

<i>Exposure Route</i>	<i>Symptoms</i>	<i>First Aid</i>
Inhalation (low concentrations)	Mild irritant to nose, throat and lungs Discomfort to eyes/throat. Headache	Remove to fresh air. Seek medical attention if symptoms persist.
Inhalation (high concentrations & prolonged exposure)	Eye/throat irritation Coughing Headache Numbness Dizziness Nausea/vomiting Labored breathing	Remove to fresh air, get medical attention including oxygen administration. Initiate CPR if breathing has stopped.
Eyes	Irritation of eyes Some discomfort	Rinse eyes with water for at least 5 minutes. Seek medical attention.

Skin	Frostbite will occur only if there is with direct contact with liquefied gas.	Wash skin with water. Seek medical attention.
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**Contra Costa RMP/CalARP Companies
that Use, Store or Manufacture this Chemical²**

Shell Martinez Refinery	Tesoro Golden Eagle Refinery
Chevron-Richmond Refinery	Conoco Phillips Refinery

Web Sites on the Internet

US Environmental Protection Agency and Technology Transfer Network	www.epa.gov/swerceppo www.epa.gov/ttn/uatw/hapindex.html	(800)535-0202 EPCRA Hotline (919)541-0888
National Institute of Occupational Safety & Health and the Agency for Toxic Substances and Disease Registry	www.cdc.gov/niosh http://atsdr1.atsdr.cdc.gov:8080/hazdat.html	(800)477-1544
Occupational Safety and Health Administration	www.osha.gov www.osha-slc.gov/ChemSamp_data	(202)219-8151 or (202)219-7056
ChemFinder®	http://Chemfinder.camsoft.com	(800)315-7300
International Safety Cards	http://siri.org/msds/mf/cards/list.html	
MSDS Sites	www.chem.utah.edu/msds www.msdonline.com	
Poison Control Center	www.calpoison.org	(800) 876 - 4766
California Health Service Department Sacramento	www.dhs.ca.gov	(916) 540 - 3014
Contra Costa County Health Services – Hazardous Materials Department	www.cchealth.org/gourps/hazmat	(925) 646 – 2286

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.

¹This information was obtained from the websites listed above.

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