



**MATERIAL SAFETY DATA SHEET (MSDS)
BUTANE/GASOLINE MIX**

IDENTITY (As Used on Label and List) Butane/Gasoline Mix (DOT ID No: UN 1011)	(Hazard Rating: Health-1/Fire-3/Reactivity-0) DOT Hazard Classification: N/A
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Section I – Chemical Product and Company Identification

Manufacturer's Name MARKWEST	Emergency Phone Number Markwest (800) 730-8388 / CHEMTREC (800) 424-9300
Address (Number, Street, City, State and ZIP code) 1515 Arapahoe Street	Telephone Number for Information: (800) 730-8388
Tower 1, Suite 1600	Date Prepared June 21, 2011
Denver, Colorado 80202-2126	Signature of Preparer (optional) N/A

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Saturated aliphatic hydrocarbons	300 ppm	300 ppm		49.5
Butanes	800 ppm	800 ppm		49.0
Benzene	1 ppm	10 ppm		0.4
Toluene	100 ppm	100 ppm		0.8
Xylenes	100 ppm	100 ppm		0.3

Section III – Physical/Chemical Characteristics

Boiling Point 80-375 ° F	Specific Gravity (H ₂ O = 1): 0.61
Vapor Pressure (Reid): 43	Melting Point: N/A
Vapor Density (AIR = 1): 2.3	Evaporation Rate (Butyl Acetate = 1): Moderate
Solubility in Water: Immiscible	
Appearance and Odor: Clear to light brown liquid with a hydrocarbon odor	

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used): -30° F	Flammable Limits	LEL 1.6%	UEL 6.0%
Extinguishing Media: Carbon dioxide, alcohol foam, and/or dry chemical. Use of water may be ineffective to extinguish the fire, but use water spray for cooling fire-exposed drums and tanks to prevent pressure rupture.			

Emergency and First Aid Procedures:

Eyes: Immediately flush the eye(s) gently with warm water for at least 15 minutes. Seek medical attention if pain or redness persists.

Skin: Remove contaminated clothing and promptly flush affected area with water. Wash affected area with soap and water.

Swallowed: **Do not induce vomiting.** Administer vegetable oil. Get medical assistance. Note: in the material is aspirated into the lungs, it may cause chemical pneumonitis. Obtain appropriate treatment.

Inhaled: Remove victim to fresh air at once. Restore and/or support breathing as required. Keep victim warm and at rest. Get medical attention as soon as possible.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled:

Eliminate all potential sources of ignition. Evacuate all non-essential personnel to an area upwind. (At least ½ mile in all directions if tanks or tank cars are involved in fire). Stop source of release, being careful not to generate a spark before putting out any fire. Ventilate enclosed areas to prevent formation of flammable or oxygen-deficient atmospheres. Water spray may be used to reduce vapors. Contain liquid spills by ditching or diking and prevent spilled liquid from entering any body of water. Pick up fluid with absorbent or explosion-proof pumps and containerize.

Waste Disposal Method:

Dispose of contaminated soil and clean-up materials in an approved disposal facility. Certain spilled wastes may be classified as hazardous or toxic dependent upon their individual characteristics.

Precautions to Be Taken in Handling and Storing:

Ground and electrically interconnect containers for transfer. Use spark-proof tools. No smoking in areas of use or storage. Avoid prolonged or repeated breathing of vapors or contact with skin. Avoid contact with eyes. Eye wash stations and safety showers should be available in areas of use. Store in a well-ventilated, fireproof area, away from sources of heat, open flame, ignition and oxidizing agents.

Other Precautions:

Use general local exhaust ventilation (explosion-proof) to keep vapors below exposure limits.

Section VIII – Control Measures

Respiratory Protection (Specify Type):

Organic vapor chemical cartridge respirators should be available for non-routine operations, emergencies, or any other situation where there is a potential for air concentrations to exceed the OSHA PEL. If there is a potential for the concentration to exceed 10 times the PEL, then supplied air respirators should be used.

Ventilation:	Local Exhaust	Special
	Mechanical (General)	Other Use in well ventilated area. Equipment must be explosion proof. Use away from all ignition sources.

Protective Gloves

Rubber

Eye Protection

Chemical safety goggles and/or full face shields

Other Protective Clothing or Equipment:

Wear protective clothing appropriate for the work situation (rubber boots). Chemical resistant coverall should be used. Emergency showers should be available in all areas where handling of the material occurs. Eyewash fountains should be readily accessible.

Work/Hygienic Practices

N/A

N/A – Not Applicable

N/D – Not Determined

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* -- Based on LP (Gas)