## **Potential Hazards Associated with Pipeline Leaks**

The following chart outlines potential hazards associated with the release of specific products that may be transported by Kinder Morgan. Each product has unique properties and hazards.

Product	Description	Fire Hazard	Health Hazard	Response (Extinguishing Method)
Benzene - Ty pical	Colorless liquid, characteristic odor	Extremely flammable. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if swallowed, inhaled or absorbed through skin	Dry chemical or foam. Cover liquid spills with foam.
Butane - Ty pical (Butane, Normal Butane, Isobutane Mix)	Colorless liquid, characteristic odor	Flammable gas. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, carbon dioxide (CO2)
CO2 – Ty pical	Colorless, odorless gas – odor like rotten eggs if H2S is present.	Nonf lammable gas	Avoid direct contact with liquid product. Can cause frostbite. Vapors are nontoxic but can serve as an asphy xiant.	Isolate the area and monitor oxy gen lev els
Crude – Heavy, Sour, or Sweet	Amber to black liquid with a mild hy drocarbon odor – like rotten eggs if H2S is present	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, foam
Denatured Ethanol – Typical	Colorless, water white liquid, with a mild fragrant odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources	Harmful or fatal if inhaled or absorbed through skin	Alcohol resistant foam, dry chemical or carbon dioxide
Ethane - Ty pical	Colorless, odorless gas	Flammable gas. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, carbon dioxide (CO2)
Ethane/Propane Mix - Typical (E/P Mix)	Colorless, odorless gas	Flammable gas. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, foam or carbon dioxide (CO2)
Gasoline – Ty pical (Unleaded Gasoline)	Clear (may be dy ed) liquid with a gasoline odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, foam, carbon dioxide (CO2) or water fog
High Sulf ur Diesel – Ty pical (Petroleum hy drocarbons)	Clear (may be dy ed) liquid with a hy drocarbon odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if swallowed, inhaled or absorbed through skin	Dry chemical, foam, carbon dioxide (CO2) or water fog. Water may be ineffective but should be used to keep fire exposed containers cool.
Kerosene - Ty pical	Clear (may be dy ed) liquid with a petroleum or solv ent odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, foam or carbon dioxide (CO2). For larger fires, use water spray or fog.
Low Sulf ur and Ultra Low Sulf ur Diesel - Typical	Clear y ellow liquid with a petroleum odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, foam, carbon dioxide (CO2) or water fog
Methanol – Typical	Colorless, mild characteristic odor	Highly flammable, keep away from heat, sparks, open flames and other ignition sources	Harmful or fatal if swallowed, inhaled or absorbed through skin	Alcohol resistant foam, dry chemical or carbon dioxide
Natural Gas (Compressed Gas, Residue gas, sales gas) – Typical	Colorless, odorless gas. Hy drocarbon odor - like rotten eggs or garlic-like, if mercaptan is present.	Flammable gas. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin. Vaporizing gas may cause frostbite.	Dry chemical or carbon dioxide (CO2)
Natural Gas Condensate - Typical	Colorless liquid with a hydrocarbon odor – like rotten eggs if mercaptan is present.	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, foam or carbon dioxide (CO2)
Propane - Typical (HD-5, Liquefied Propane Gas, LP-Gas, LPG)	Colorless, odorless liquefied gas	Flammable gas. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical or carbon dioxide (CO2)
Refine Grade Propylene (RGP)	Colorless, Odorless Compressed Liquefied Gas	Flammable gas. Keep away from heat, sparks, open flames and other ignition sources. May cause flash fire.	Harmful or fatal if inhaled or absorbed through skin	Dry chemical, carbon dioxide (CO2). Applicable for surrounding materials.
Transmix – Typical (T-034; T-035; OHSDU545)	Pink to bronze liquid with a gasoline odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if swallowed, inhaled or absorbed through skin	Dry chemical, foam, carbon dioxide (CO2), or water fog
Turbine Fuel – Typical	Clear watery-white liquid with a faint hy drocarbon odor	Flammable liquid. Keep away from heat, sparks, open flames and other ignition sources.	Harmful or fatal if swallowed, inhaled or absorbed through skin	Dry chemical, foam, carbon dioxide (CO2), water fog, or vaporizing liquid type extinguishing agents

