Codes & Certifications

Hazardous Location Chemicals by Groups

GAS

GROUP A — **ATMOSPHERES** acetylene

GROUP B — ATMOSPHERES

acrolein (inhibited) (2) arsine butadiene (1) ethylene oxide (2) formaldehyde (gas) hydrogen manufactured gasses containing more than 30% hydrogen (by volume) propylene oxide (2) propylnitrate

GROUP C — **ATMOSPHERES**

acetaldehyde allyl alcohol butyl mercaptan n-butyraldehyde carbon monoxide crotonaldehyde cyclopropane dicyclopentadiene diethyl ether diethylamine di-isopropylamine dimethylamine 1,4-dioxane di-n-propylamine epichlorohydrin ethylene ethylenimine ethyl mercaptan n-ethyl morpholine ethyl sulphide hydrogen cyanide hydrogen selenide

hydrogen sulfide iisobutyraldehyde isopropyl glycidyl ether methylacetylene methylacetylene-propadience (stabilized) methyl ether methyl formal methyl mercaptan monomethyl hydrazine morpholine nitroethane nitromethane 2-nitropropane propionaldehyde n-propyl ether tetrahydrofuran triethylamine unsymmetrical dimethylhydrazine (UDMH 1,1-dimethyl hydrazine) valeraldehyde

acetic acid (glacial) acetone acetonitrile acrylonitrile allyl chloride ammonia (3) n-amyl acetate sec-amyl acetate benzene butane 1-butanol (butyl alcohol) 2-butanol (secondary butyl alcohol) n-butyl acetate sec-butyl acetate butylamine butylene chlorobenzene chloroprene cyclohexane cyclohexene cyclopropane 1,2-dichlorethylene 1,3-dichloropropene di-isobutylene ethane ethanol (ethyl alcohol) ethyl acetate ethyl acrylate (inhibited) ethylamine ethyl benzene ethyl chloride

GROUP D — ATMOSPHERES ethylene dichloride ethylene glycol monomethyl ether ethyl formate gasoline heptane heptene hexane 2-hexanone hexenes isoamyl acetate isoamvl alcohol isobutyl acrylate isoprene isopropyl acetate isopropylamine isopropyl ether liquefied petroleum gas mesityl oxide methane (natural gas) methanol (methyl alcohol) methyl acetate methyl acrylate methylamine methylcyclohexane methyl ethyl ketone methyl formate methyl isobutyl ketone methyl isocyanate methyl methacrylate

ethylenediamine (anhydrous) 2-methyl-1-propanol (isobutyl alcohol) 2-methyl-2-propanol (tertiary butyl alcohol) naphtha (petroleum) nonane nonene octane octene Dentane 1-pentanol (amyl alcohol) 2-pentanone 1-pentene petroleum naphtha (4) propane 1-propanol (propyl alcohol) 2-propanol (isopropyl alcohol) n-propyl acetate propylene propylene dichloride propylene oxide (2) pyridine styrene toluene tripropylamine turpentine vinyl acetate vinyl chloride vinylidene chloride xylenes

DUST

GROUP E — ATMOSPHERES Containing combustible metal dusts regardless of resistivity, or other combustible dusts of similarly hazardous characteristics having resistivity of less than 10 3/4 ohm-centimeter.

GROUP F — ATMOSPHERES Containing carbon black, charcoal, coal or coke dusts which have more than 8 percent total volatile material (carbon black per ASTM D1620; charcoal, coal and coke dusts, per ASTM D271) or atmospheres containing these dusts sensitized by other materials so that they present an explosion hazard, and having resistivity greater than 10 ohmcentimeter but equal or less than 108 ohm-centimeter.

GROUP G — ATMOSPHERES Containing combustible dusts having resistivity of 105 ohm-centimeter or greater.

- (1) Group D equipment shall be permitted for this atmosphere if such equipment is isolated in accordance with Section 501-5(a) by sealing all conduit 1/2-inch or larger.
- (2) Group C equipment shall be permitted for this atmosphere if such equipment is isolated in accordance with Section 501-5(a) by sealing all conduit 1/2-inch or larger.
- (3) For classification of areas involving ammonia atmosphere see Safety Code for Mechanical Refrigeration (ANSI/ASHRAE 15-1978) and Safety Requirements for the Storage and Handling of Anhydrous Ammonia (ANSI/CGA G2, 1-1972).
- (4) Petroleum Naphtha is a saturated hydrocarbon mixture whose boiling range is 20° to 135°C. It is also known as benzine, ligroin, petroleum ether, and naphtha.

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