

Toxic, Flammable/Combustible Fire Hazard Characterizations

Toxic

rat oral LD₅₀ > 50 mg/kg and < 500 mg/kg; rat inhalation LC₅₀ > 2 mg/L and ≤ 20 mg/L; rat dermal LD₅₀ > 200 mg/kg and < 1000 mg/kg

H301, H302, H331, H332, H311

Highly Toxic

rat oral LD₅₀ ≤ 50 mg/kg; rat inhalation LC₅₀ ≤ 2 mg/L; rat dermal LD₅₀ ≤ 200 mg/kg

H300, H330, 310

Flammable Liquid IA

Flashpoint < 73F (22.8C) & Boiling Point < 100F (37.8C)

H224

Flammable Liquid IB

Flashpoint < 73F (22.8C) & Boiling Point ≥ 100F (37.8C)

H225

Flammable Liquid IC

Flashpoint ≥ 73F (22.8C) & < 100F (37.8C)

H226

Combustible Liquid II

Flashpoint ≥ 100F (37.8C) & < 140F (60C)

Combustible Liquid IIIA

Flashpoint ≥ 140F (60C) & < 200F (93.3C)

H227

Combustible Liquid IIIB

Flashpoint ≥ 200F (93.3C)

State of Matter

NTP = Normal Temperature and Pressure: 20C (293.15 K, 68F) and 1 atm (101.325 kN/m², 101.325 kPa, 14.7 psia, 0 psig, 29.92 in Hg, 407 in H₂O, 760 torr).

Solid

Melting Point > 20C

H200, H201, H202, H203, H204, H205, H228

Liquid

Boiling Point > 20C

H224, 225, 226, 227, 281

Gas

Boiling Point ≤ 20C

H220, 221, 270, 280

Liquified Gas

Gas at NTP, liquid in container

Liquefied gas: A gas which when under pressure is partially liquid at temperatures above -50°C (-58°F). A distinction is made between:

- (a) *High pressure liquefied gas*: a gas with a critical temperature between -50°C (-58°F) and +65°C (149°F); and
- (b) *Low pressure liquefied gas*: a gas with a critical temperature above +65°C (149°F).

CRYOGENIC FLUID. A fluid having a boiling point lower than -130°F (-89.9°C) at 14.7 pounds per square inch atmosphere (psia) (an absolute pressure of 101.3 kPa).