

IGNITABLE LIQUIDS

A USER'S GUIDE

#2

PROJECT

COMPANY

Project name

Company

#1

US

SI

#3

NFPA 30 CLASSIFICATION

NFPA 30, Section 4.3 — Flammable (Class I) & Combustible (Class II/III) Liquids.

#4

US DOT CLASSIFICATION

49 CFR 173.120 — exemptions may apply, see Section 173.120(a)(1)–(a)(5).

#5

UN GHS CLASSIFICATION

UN Globally Harmonized System — flammable liquid categories 1–4.

#6

LIQUIDS

#	DESCRIPTION	FLASH °F	BOIL °F	VOL GAL	NFPA 30	US DOT	UN GHS
1	Gasoline	-45	140	500	Class IB	Flammable	Category 2
2	Ethanol	55	173	250	Class IB	Flammable	Category 2
3	Diesel #2	125	640	1000	Class II	Flammable	Category 3
4	Mineral Oil	380	680	300	Class IIIIB	Non-Classified	Non-Flammable

+ Add liquid

4 liquids

Enter a flash point to classify each liquid. A boiling point is required to distinguish NFPA Class IA/IB and GHS Category 1/2 for low-flash liquids.

Flash / Boiling in °F • volume in gal

#7

#8

Upload CSV

PNG

CSV

Reset

Print / PDF

#2026 MeyerFire, LLC

DESCRIPTION

PURPOSE: The Ignitable Liquids tool classifies flammable and combustible liquids under three regulatory systems at once. Enter each liquid’s flash point, boiling point, and stored volume, and the tool (1) assigns its NFPA 30, US DOT, and UN GHS classification, (2) plots every liquid on a flash-point band diagram for each system, and (3) totals the stored volume in each class. The tool supports US/SI units, CSV import and export, a PNG of the schematics, and a printable one-page report.

#1 UNIT TOGGLE: Switch between US customary units (°F, gallons) and metric SI units (°C, liters). Every input, threshold, and volume total updates automatically; the resulting classifications are unaffected.

#2 PROJECT / COMPANY: Enter a project name and company. These appear on the printed and PDF report header and do not affect any classification.

#3 NFPA 30 CLASSIFICATION: The flash-point scale from NFPA 30 (Section 4.3). Each liquid is placed in its class — Class IA, IB, or IC (flammable) or Class II, IIIA, or IIIB (combustible). The bottom band is split by boiling point (100°F / 37.8°C) to separate Class IA from IB, and the dashed line marks the flammable/combustible boundary at 100°F. The total volume in each class is shown in its band.

#4 US DOT CLASSIFICATION: The classification per 49 CFR 173.120 — Flammable (flash point below 140°F / 60°C), Combustible (140–200°F / 60–93°C), or Non-Classified (at or above 200°F). Note that Section 173.120(a)(1)–(a)(5) provides exemptions for classifying certain flammable liquids.

#5 UN GHS CLASSIFICATION: The Globally Harmonized System scale — Category 1 through 4, or Non-Flammable. The bottom band is split by boiling point (95°F / 35°C) to separate Category 1 from Category 2.

#6 LIQUIDS: Enter each liquid's Description, Flash Point, Boiling Point, and Volume. Use Add liquid to add rows and the x to remove one. A flash point is required to classify a liquid; a boiling point is needed to resolve NFPA Class IA/IB and GHS Category 1/2 for low-flash liquids.

#7 CLASSIFICATION RESULTS: For every liquid the NFPA 30, US DOT, and UN GHS results appear inline, color-matched to the three diagrams. Each liquid carries a numbered diamond that locates it on all three schematics.

#8 IMPORT, EXPORT & PRINT: Upload CSV imports a list of liquids (units are auto-detected from the header). PNG exports the three schematics as an image, CSV exports the liquids and their classifications, Reset restores the defaults, and Print / PDF produces a clean one-page report.