

TRANSPORTATION OF DANGEROUS GOODS

FLAMMABLE LIQUIDS

TEST IT

for flash point and initial boiling point

CLASSIFY IT

to determine packing group and truck requirements

LABEL IT

label loading port and tanks with UN number and shipping name

CHECK IT

make sure shipping documents, placards, and truck types reflect the product

How are you managing the risk?



TEST IT

for flash point and initial boiling point

Encana products	TDG/DOT test	Test methods
Gases	N/A	N/A
Liquids	Initial boiling point Flash point	ASTM D86 ASTM D93
Water	Initial boiling point Flash point	ASTM D86 ASTM D93

CLASSIFY IT

to determine packing group and truck requirements

Packing group criteria		
Packing group	Initial boiling point	Flash point (closed-cup)
I	≤35°C or 95°F	–
II	>35°C or 95°F	<23°C or 73°F
III	>35°C or 95°F	≥23°C, ≤60°C or ≥73°F, ≤140°F

Class criteria	
Encana product name	Class No. and Division No. ⁽¹⁾
Condensate (sour)	3 (6.1)
Condensate (sweet)	3
Crude oil (sour)	3 (6.1)
Crude oil (sweet)	3
Produced water (sour)	3 (6.1)
Produced water (sweet)	3
Liquefied petroleum gas (PNG)	2.1
Liquefied natural gas (LNG)	2.1
Compressed natural gas fuel	2.1

1) Class 3 is for flammable liquids and class 2.1 is for flammable gases. Classification criteria is complex and requires reference to Schedule 1 in Canada and tables 173.2 and 172.101 of the HMR in the USA.

LABEL IT

label loading port and tanks with UN number and shipping name

Labelling criteria		
Encana product name	UN number	Proper shipping name ⁽¹⁾
Condensate (sour)	UN 3494	PETROLUEM SOUR CRUDE OIL, FLAMMABLE, TOXIC
Condensate (sweet)	UN 1268	PETROLEUM PRODUCTS, N.O.S.
Crude oil (sour)	UN 3494	PETROLUEM SOUR CRUDE OIL, FLAMMABLE, TOXIC
Crude oil (sweet)	UN 1267	PETROLUEM CRUDE OIL
Produced water (sour)	UN 3494	PETROLUEM SOUR CRUDE OIL, FLAMMABLE, TOXIC
Produced water (sweet)	UN 1267	PETROLUEM CRUDE OIL
Liquefied petroleum gas (PNG) ⁽²⁾⁽³⁾	UN 1075	LIQUEFIED PETROLEUM GASES
Liquefied natural gas (LNG) ⁽²⁾	UN 1972	NATURAL GAS, REFRIDGERATED LIQUID
Compressed natural gas fuel	UN 1971	NATURAL GAS, COMPRESSED

- 1) must be in capslock
- 2) requires Emergency Response Assistance Plan
- 3) for a liquefied petroleum gas that has not been odorized, the words “Not Odourized” must be used in the shipping name

CHECK IT

make sure shipping documents, placards, and truck types reflect the product

Encana is the consignor and truck companies are the carriers. Here are some responsibilities of the consignor:

- check the recent tests to be sure the proper classification has not changed
- check the shipping document has the right information
 - is the right UN number being used?
 - is the shipping name in capslock?
 - is the consignor’s certification signed by an individual from Encana?
- check the truck to make sure it has the right placard