

**RULE 5.12 - PRIOR CARGO LISTINGS**

**August 8, 2022**

**NOTE:**

Substances not appearing on either Acceptable List 1 or 2 are not permitted to be carried as the last cargo immediately prior to edible oils.

**5.12.1 - ACCEPTABLE PRIOR CARGO - LIST NO. 1**

The following items are acceptable prior cargoes for transported edible oils, which may or may not be further processed prior to use:

**CARGO COMMON NAME**

Acetic acid - (USP and Food Grades only)  
Alcoholic beverages (i.e. rum, wine)  
Algal Oils  
Almond oil  
Anchovy oil  
Apple juice concentrate  
Apricot kernel oil  
Avocado oil  
Babassu oil  
Beechnut oil  
Beeswax (white & yellow)  
Candelilla wax  
Canola oil - LEAR ("double zero")  
Carnauba wax  
Castor oil  
Cocoa butter  
Coconut oil  
Cod liver oil  
Cod oil  
Cohune oil  
Corn oil - (maize oil)  
Corn syrup  
Cottonseed oil  
Dairy products (limited per USA 21CFR, Part 131)  
Dextrose solution  
Ethyl alcohol - (Food Grades only)  
Fish liver oil  
Fish oil  
Fructose  
Glucose syrup  
Glycerin  
Grape juice concentrate  
Grapeseed oil  
Hazelnut oil  
Herring oil  
Illipe butter - (mowrah butter)  
Juice concentrates (i.e. apple, grape)  
Lactic acid (limited per USA 21CFR, Parts 150 & 184)  
Lard  
Linseed oil  
Lycopersicum esculentum oil - (tomato seed oil)  
Menhaden oil  
Molasses  
Montan wax  
Murumuru fat  
Mustard seed oil  
Non-alcoholic beverages  
Nutmeg butter  
Olive oil  
Orange juice slurry  
Palm kernel oil  
Palm kernel olein  
Palm kernel stearin

**5.12.1 - ACCEPTABLE PRIOR CARGO - LIST NO. 1 - continued**

Palm oil  
Palm oil mid-fractions  
Palm olein  
Palm stearin  
Peanut oil - (groundnut oil); (GNO)  
Phosphoric acid - (Food Grades only)  
Pilchard oil  
Poppyseed oil  
Propylene glycol - (USP and Food Grades only)  
Rapeseed oil - (HEAR)  
Rapeseed oil - (LEAR) ("double zero") Rapeseed oil - (LEAR) ("single zero")  
Rapeseed oil (hydrogenated)  
Rice bran oil  
Safflower oil  
Sal fat  
Sardine oil Sesame oil  
Shark oil  
Shea oil - (shea butter)  
Sorbitol  
Soybean oil Sunflower oil  
Tallow (edible)  
Teaseed oil  
Tucum oil  
Vegetable ghee (made from vegetable oils on this list)  
Walnut oil  
Water, potable (Acceptable only when immediately following a prior cargo on this LIST)

## 5.12.2 - ACCEPTABLE PRIOR CARGO - LIST NO. 2

Acceptable prior cargoes for edible oils, which will undergo further processing:

### CARGO COMMON NAME

Acetic acid  
Acetic anhydride  
Acetone  
Ammonium hydroxide  
Ammonium polyphosphate  
Ammonium sulphate solution (Food grade)  
Benzyl alcohol - (NF and Reagent grades only)  
Butanediol - (see glycols)  
Butylene glycol - (see glycols)  
Butyl acetates - (n-, sec-, & tert-)  
Calcium ammonium nitrate (CAN-17) solution  
Calcium chloride solution  
Calcium lignosulfonate liquid - (lignin liquor); (sulphite lye)  
Calcium nitrate (CN-9) solution  
Coconut acid oil - (CAO; acidulated coconut oil soapstock)  
Coconut oil fatty acid methyl esters  
Coconut oil fatty acids  
Coconut oil fatty alcohols  
Cottonseed acid oil  
Cottonseed oil fatty acid  
Cyclohexane  
Cyclohexanol  
Cyclohexanone  
Ethanol - (ethyl alcohol)  
Ethyl acetate - (EA)  
2-Ethylhexyl alcohol - (2-ethyl hexanol)  
Ethyl tertiary butyl ether (ETBE)

### Fatty acids:

<u>COMMON NAME</u>		<u>SYSTEMATIC/CHEMICAL NAME</u>
Butyric acid	C-4	Butanoic acid
Valeric acid	C-5	Pentanoic acid
Caproic acid	C-6	Hexanoic acid
Heptonic acid	C-7	Heptanoic acid
Caprylic acid	C-8	Octanoic acid
Pelargonic acid	C-9	Nonanoic acid
Capric acid	C-10	Decanoic acid
Lauric acid	C-12	Dodecanoic acid
Lauroleic acid	C-12'	Dodecenoic acid
Myristic acid	C-14	Tetradecanoic acid
Myristoleic acid	C-14'	Tetradecenoic acid
Palmitic acid	C-16	Hexadecanoic acid
Palmitoleic acid	C-16'	Hexadecenoic acid
Stearic acid	C-18	Octadecanoic acid
Ricinoleic acid	C-18'	12-Hydroxy-9-octadecenoic acid
Oleic acid	C-18'	Octadecenoic acid
Linoleic acid	C-18''	Octadecadienoic acid
Linolenic acid	C-18'''	Octadecatrienoic acid
Arachidic acid	C-20	Eicosanoic acid
Behenic acid	C-22	Docosanoic acid
Erucic acid	C-22'	Docosenoic acid

Fatty acid esters - (An ester produced by the combination of any of the listed fatty acids with any of the listed fatty alcohols) Examples include:

Butyl myristate  
Cetyl stearate  
Oleyl palmitate

**5.12.2 - ACCEPTABLE PRIOR CARGO - LIST NO. 2 - continued**

Fatty acid methyl esters - (methyl esters of fatty acids) Examples include:

<u>COMMON NAME</u>		<u>CHEMICAL NAME</u>
Methyl laurate	C-12	Methyl dodecanoate
Methyl palmitate	C-16	Methyl hexadecanoate
Methyl stearate	C-18	Methyl octadecanoate
Methyl oleate	C-18'	Methyl octadecenoate

Fatty alcohols - (Natural alcohols):

<u>COMMON NAME</u>		<u>SYSTEMATIC</u>	<u>OTHER</u>
Butyl alcohol	C-4	1-Butanol	Butyric alcohol
Caproyl alcohol	C-6	1-Hexanol	Hexyl alcohol
Enanthyl alcohol	C-7	1-Heptanol	Heptyl alcohol
Capryl alcohol	C-8	1-n-Octanol	Octyl alcohol
Nonyl alcohol	C-9	1-Nonanol	Pelargonic alcohol
Decyl alcohol	C-10	1-Decanol	
Lauryl alcohol	C-12	1-Dodecanol	Dodecyl alcohol
Tridecyl alcohol	C-13	1-Tridecanol	
Myristyl alcohol	C-14	1-Tetradecanol	
Cetyl alcohol	C-16	1-Hexadecanol	Cetylic alcohol; Palmityl alcohol
Stearyl alcohol	C-18	1-Octadecanol	
Oleyl alcohol	C-18'	1-Octadecenol	
Lauryl myristyl alcohol		(C12 - C14) - (blend)	
Cetyl stearyl alcohol		(C16 - C18) - (blend)	
Hexadecanol combination		(C16 - C18) - (blend of natural fatty alcohols)	

Synthetic Primary Alcohols (C9-C16)

<u>SUBSTANCE</u>	<u>CHEMICAL NAME</u>	<u>CAS NO.</u>
Isononyl alcohol	(C8-C10)	27458-94-2
Isononyl alcohol	(C8-C10, Iso)	68526-84-1
Primary alcohol	(C9-C11)	66455-17-2
1-Decanol	(C-10)	112-30-1
1-Undecanol	(C-11)	112-42-5
1-Dodecanol	(C-12)	112-53-8
Primary alcohol	(C12-C13)	75782-86-4
Primary alcohol	(C12-C15)	63393-82-8
1-Tetradecanol	(C-14)	112-72-1
Primary alcohol	(C14-C15)	75782-87-5
Alcohols	(C14-C16)	68333-80-2
1-Dodecanol		112-53-8
1-Tetradecanol		112-72-1
1-Hexadecanol		36653-82-4

Glycols:

<u>COMMON NAME</u>	<u>SYNONYMS</u>
Butylene glycol & Butanediol	1,3-butylene glycol; 1,3-butanediol 1,4-butylene glycol; 1,4-butanediol 2,3-butylene glycol; 2,3-butanediol
Polypropylene glycol	PG
Propylene glycol	1,2-propylene glycol; 1,2-propandiol; 1,2-dihydroxypropane; monopropylene glycol - (MPG)
1,3-Propylene glycol	trimethylene glycol; 1,3-propanediol

**5.12.2 - ACCEPTABLE PRIOR CARGO - LIST NO. 2 - continued**

CARGO COMMON NAME

Formic acid  
Heptane  
Hexane (technical)  
n-Hexane  
Hydrogen peroxide  
Isobutyl acetate  
Isobutyl alcohol - (isobutanol)  
Isodecyl alcohol - (isodecanol)  
Isononyl alcohol - (isononanol)  
Isooctyl alcohol - (isooctanol)  
Isopropyl alcohol - (isopropanol)  
Kaolin slurry  
Lecithin  
Limonene - (dipentene)  
Magnesium chloride solution  
Methanol - (methyl alcohol)  
Methyl acetate  
Methyl ethyl ketone - (MEK)  
Methyl isobutyl ketone - (MIBK)  
Methyl tertiary butyl ether - (MTBE)  
Nitric acid  
Nonane (C-9) - (nonyl hydride)  
Palm acid oil - (PAO)  
Palm fatty acid distillate - (PFAD)  
Palm kernel fatty acid distillate - (PKFAD)  
Palm kernel oil fatty acid methyl esters  
Palm kernel oil fatty acids  
Palm kernel oil fatty alcohols  
Palm oil fatty acid methyl esters  
Palm oil fatty acids  
Palm oil fatty alcohols  
Pentane  
Petroleum wax, edible grade - (petroleum paraffin; paraffin wax)  
Phosphoric acid  
Polypropylene glycol - (PG) - (see glycols)  
Potassium hydroxide solution - (caustic potash solution)  
Propyl acetate  
Propyl alcohol - (1-propanol)  
Propylene glycol - (MPG) - (see glycols)  
Propylene tetramer  
Rice bran acid oil  
Silicon dioxide  
Sodium hydroxide solution - (caustic soda solution)  
Sodium silicate  
Soybean acid oil  
Soybean oil (epoxidized)  
Soybean oil fatty acids  
Sulphuric acid  
Tall oil fatty acids (ASTM types I and II only)  
\*\* Tallow (inedible)  
Tallow fatty acids  
Tallow fatty alcohol  
Tung oil  
Urea ammonium nitrate solution - (UAN solution)  
Urea (carbamide; urea solution)  
Water, potable (Acceptable only when immediately following a prior cargo on this LIST)  
White mineral oil, USP  
Wine lees

**5.12.2 - ACCEPTABLE PRIOR CARGO - LIST NO. 2 - continued**

\* Acceptable - provided any future modifications in bactericides are appropriately reviewed.

\*\*The country of origin in which the product is rendered must have standards or certification programs, which are designed to preclude toxic or bacterial contamination and the transmission of pathogens including bovine spongiform encephalitis (BSE) by animal products or byproducts. Tallow (inedible) includes the Standard Grades for Tallows and Greases as set forth by Rule 7 of the American Fats and Oils Association (AFOA).

**5.13 - STORAGE AND EX TANK SALES**

All oils traded must comply with PRIOR CARGO LISTINGS as stated in Rule 5.12 for transloading and transshipment of oils ex vessels and storage tanks into barges railroad tank cars, tank trucks and tank containers. Seller shall make prior cargo information available upon request.

"THIS CONCLUDES THE CHAPTER ON ACCEPTABLE PRIOR CARGO"

## GLOSSARY OF CHEMICAL CARGOES

<u>NAME</u>	<u>CAS NUMBER</u>	<u>SYNONYMS</u>	<u>NIOP LISTING</u>
Acetic acid, USP and Food Grades only	64-19-7	Ethanoic acid	Acceptable 1
Acetic acid, glacial	64-19-7	Ethanoic acid Ethylic acid Glacial acetic acid Methane carboxylic acid Vinegar acid	Acceptable 2
Acetic anhydride	108-24-7	Ethanoic anhydride	Acceptable 2
Acetone	67-64-1	Dimethyl formaldehyde Dimethyl ketone 2-Propanone Dimethyl ketal	Acceptable 2
Ammonium hydroxide	1336-21-6	Ammonia solution (DOT) Aqua ammonia Ammonia aqueous Ammonia water Ammonium hydrate	Acceptable 2
Ammonium polyphosphate	68333-79-9	*	Acceptable 2
Ammonium sulfate	7783-20-2	Diammonium Sulfate Standard or Granular Ammonium Sulfate Ammonium Sulfate Sulfuric Acid Diammonium salt	Acceptable 2
Benzyl alcohol, NF and Reagent grades only	100-51-6	Phenyl carbinol Phenyl methanol Alpha-Hydroxytoluene	Acceptable 2
Butanediol	*	See specific isomers (1,3; 1,4 or 2,3)	Acceptable 2
1,3-Butanediol	107-88-0	beta-Butylene glycol 1,3-Butylene glycol 1,3-Dihydroxybutane Methyl trimethylene glycol	Acceptable 2
1,4-Butanediol	110-63-4	1,4-Butylene glycol 1,4-Dihydroxybutane 1,4-Tetramethylene glycol	Acceptable 2
2,3-Butanediol	513-85-9	2,3-Butylene glycol 2,3-Dihydroxybutane Dimethylene glycol	Acceptable 2
n-Butyl acetate	123-86-4	Butyl ethanoate Acetic acid n-Butyl ester	Acceptable 2
sec-Butyl acetate	105-46-4	Acetic acid, sec-Butyl ester	Acceptable 2
tert-Butyl acetate	540-88-5	Acetic acid, tert-Butyl ester	Acceptable 2

## GLOSSARY OF CHEMICAL CARGOES

<u>NAME</u>	<u>CAS NUMBER</u>	<u>SYNONYMS</u>	<u>NIOP LISTING</u>
Butylene glycol	*	See Butanediol (1,3; 1,4 or 2,3)	Acceptable 2
Calcium ammonium nitrate solution	6484-52-2	CAN-17	Acceptable 2
Calcium chloride solution	10043-52-4	Calcium chemical brine	Acceptable 2
Calcium nitrate solution	35054-52-5	CN-9	Acceptable 2
Cyclohexane	110-82-7	Hexahydrobenzene Hexamethylene Hexanapthene	Acceptable 2
Cyclohexanol	108-93-0	Cyclohexyl alcohol Hexahydrophenol Hydroxycyclohexane Hexalin Hydralin	Acceptable 2
Cyclohexanone	108-94-1	Hexanon Ketoexamethylene Pimelic ketone Cyclohexyl ketone	Acceptable 2
Ethanol	64-17-5	Ethyl alcohol Alcohol, anhydrous Spirit Cologne spirits (alcohol) (DOT) SD alcohol	Acceptable 2
Ethyl acetate (EA)	141-78-6	Ethyl ethanoate Ethyl acetic ester Acetic ether Acetoxyethane EA	Acceptable 2
Ethyl alcohol, Food Grade only	64-17-5	Ethanol	Acceptable 1
2-Ethyl hexyl alcohol (2-EH)	104-76-7	2-Ethyl-1-hexanol 2-EH 2-Ethyl hexanol	Acceptable 2
Ethyl Tertiary Butyl Ether (ETBE)	637-92-3	ETBE Tert-Butyl Ethyl Ether	Acceptable 2
Formic acid	64-18-6	Methanoic acid Aminic acid Formylic acid	Acceptable 2
Glycerin	56-81-5	Glycerine Glycerol Trihydric alcohol Polyhydric alcohol	Acceptable 1

## GLOSSARY OF CHEMICAL CARGOES

<u>NAME</u>	<u>CAS NUMBER</u>	<u>SYNONYMS</u>	<u>NIOP LISTING</u>
Heptane	142-82-5	Dipropyl methane	Acceptable 2
Hexane, technical	64742-49-0	Hexane	Acceptable 2
n-Hexane	110-54-3	Hexane	Acceptable 2
Hydrogen peroxide	7722-84-1	*	Acceptable 2
Isobutyl acetate	110-19-0	2-Methyl propyl acetate 2-Methyl propyl ethanoate	Acceptable 2
Isobutyl alcohol	78-83-1	2-Methyl propanol Isobutanol	Acceptable 2
Isodecyl alcohol	25339-17-7	Isodecanol	Acceptable 2
Isononyl alcohol	27458-94-2	Isononanol	Acceptable 2
Isooctyl alcohol	26952-21-6	Isooctanol	Acceptable 2
Isopropyl alcohol (IPA)	67-63-0	Dimethyl carbinol Isopropanol 2- Propanol sec-Propyl alcohol (DOT) IPA	Acceptable 2
Kaolin slurry	1332-58-7	China clay slurry	Acceptable 2
Lignin liquor	68131-32-8	Calcium lignosulfonate liquid Sulphite lye	Acceptable 2
Limonene	138-86-3	Dipentene p-Mentha-1,8-diene Methyl-4-isopropenyl-1- cyclohexene Cinene Acintene	Acceptable 2
Magnesium chloride solution	7786-30-3	*	Acceptable 2
Methanol	67-56-1	Methyl alcohol Wood alcohol Wood spirit Carbinol Methyl hydroxide	Acceptable 2
Methyl ethyl ketone (MEK)	78-93-3	2-Butanone Ethyl methyl ketone Methyl acetone MEK	Acceptable 2
Methyl isobutyl ketone (MIBK)	108-10-1	Hexone Isobutyl methyl ketone Isopropyl acetone 4-Methyl-pentan-2-one MIBK	Acceptable 2

## GLOSSARY OF CHEMICAL CARGOES

<u>NAME</u>	<u>CAS NUMBER</u>	<u>SYNONYMS</u>	<u>NIOP LISTING</u>
Methyl tertiary butyl ether (MTBE)	1634-04-4	Methyl 1,1-dimethylethyl ether Propane,2-methoxy-2-methyl (9CI) MTBE	Acceptable 2
Nitric acid	7697-37-2	Nitric acid, over 40% (DOT) Hydrogen nitrate Aqua fortis Azotic acid Red fuming	Acceptable 2
Nonane	111-84-2	Nonane (DOT) Nonyl hydride	Acceptable 2
Pentane	109-66-0	Amyl hydride (DOT)	Acceptable 2
Petroleum wax	8002-74-2	Paraffin wax – edible Petroleum paraffin	Acceptable 2
Phosphoric acid, Food Grades only	7664-38-2	*	Acceptable 1
Phosphoric acid	7664-38-2	ortho Phosphoric acid Phos acid	Acceptable 2
Polypropylene glycol (PG)	25322-69-4	PG	Acceptable 2
Potassium hydroxide solution	1310-58-3	Caustic potash solution	Acceptable 2
Propyl acetate	109-60-4	Acetic acid n-Propyl ester 1-Acetoxyp propane 1-Propyl acetate n-Propyl acetate 1-Propyl ethanoate	Acceptable 2
Propyl alcohol	71-23-8	1-Propanol Ethyl carbinol n-Propanol 1-Propyl alcohol 1-Hydroxypropane	Acceptable 2
Propylene Glycol, USP and Food Grades only	57-55-6	1,2-Propylene glycol 1,2 Propanediol Monopropylene glycol (MPG)	Acceptable 1
1,2-Propylene glycol	57-55-6	1,2-Propanediol Trimethyl glycol Methyl ethylene glycol Monopropylene glycol (MPG) 1,2-Dihydroxypropane	Acceptable 2
1,3-Propylene glycol	504-63-2	Trimethylene glycol 1,3-Propanediol 1,3-Dihydroxypropane	Acceptable 2

## GLOSSARY OF CHEMICAL CARGOES

<u>NAME</u>	<u>CAS NUMBER</u>	<u>SYNONYMS</u>	<u>NIOP LISTING</u>
Propylene tetramer	6842-15-5	Propene tetramer Dodecene Dodecylene Tetrapropylene	Acceptable 2
Silicon dioxide	7631-86-9	Micro silica	Acceptable 2
Sodium hydroxide solution	1310-73-2	Caustic soda solution Lye solution Soda lye solution White caustic solution	Acceptable 2
Sodium silicate	1344-09-8	Water glass	Acceptable 2
Sulphuric acid	7664-93-9	Hydrogen sulphate Oil of vitriol (DOT) Dipping acid Matting acid Spent sulphuric acid	Acceptable 2
Tall oil fatty acid ASTM Types I & II	61790-12-3	TOFA	Acceptable 2
Urea ammonium nitrate solution	15978-77-5	UAN (28%, 30%, 32% N) Nitrogen fertilizer solution Direct application solution UAN solution	Acceptable 2
Urea (carbamide; urea solution)	57-13-6	Carbamide, Carbonyldiamide	Acceptable 2
White mineral oil, USP	8042-47-5	Mineral oil, white	Acceptable 2