

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Devision dates 04/04/0040

	×	Revision date: 04/24/2013 :	Version:
SEC	TION 1: Identificatio	on of the substance/mixture and of the company/undertaking	
1.1.	Product identifier		
Produc	ct form	: Mixtures	
Trade	name	: PETRA FUEL SYSTEM CLNR 12/12OZ	
Produc	ct code	: 2002	
1.2.	Relevant identified us	ses of the substance or mixture and uses advised against	
1.3.	Details of the supplie	er of the safety data sheet	
6100 V	Oil Company Vest by Northwest Blvd. S Houston, TX	Ste. 190	
1.4.	Emergency telephone	e number	
Emerg	ency number	: CHEMTREC 24 Hour 1-800-424-9300	
SEC	TION 2: Hazards ide	entification	
2.1.	Classification of the	substance or mixture	
Classi	fication (GHS-US)		
	Liq. 3 H226 rit. 2 H315 2 H361		
2.2.	Label elements		
	JS labeling d pictograms (GHS-US)	HS02 GHS07 GHS08	
Signal	word (GHS-US)	GHS02 GHS07 GHS08 : Warning	
-	d statements (GHS-US)	 H226 - Flammable liquid and vapor H315 - Causes skin irritation H361 - Suspected of damaging fertility or the unborn child 	
	utionary statements (GHS-	 P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking P233 - Keep container tightly closed P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical/ventilating/lighting/ equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P264 - Wash thoroughly after handling P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminat clothing. Rinse skin with water/shower P308+P313 - IF exposed or concerned: Get medical advice/attention P332+P313 - If skin irritation occurs: Get medical advice/attention P332+P313 - I case of fire: Use for extinction P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up P501 - Dispose of contents/container to 	ed
2.3.	Other hazards		
No add	ditional information availab Unknown acute toxic		
	a available		
050		allaformation on ingradianta	

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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Name	Product identifier	%	Classification (GHS-US)
kylene, mixture of isomers	(CAS No) 1330-20-7	34.8 - 58	Flam. Liq. 3, H226 Skin Irrit. 2, H315
1-methoxy-2-propanol	(CAS No) 107-98-2	>= 19.9	Flam. Liq. 3, H226
distillates, hydrotreated light	(CAS No) 64742-47-8	10 - 30	Asp. Tox. 1, H304
Stoddard solvent	(CAS No) 8052-41-3	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312
toluene	(CAS No) 108-88-3	< 0.58	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
2-methoxypropanol	(CAS No) 1589-47-5	< 0.1	Flam. Liq. 3, H226

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label).
First-aid measures after eye contact	 Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/injuries	: Suspected of damaging fertility or the unborn child.
Symptoms/injuries after skin contact	: Causes skin irritation.
4.3. Indication of any immediate medic	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	ubstance or mixture
Fire hazard	: Flammable liquid and vapor.
5.3. Advice for firefighters	· ·
Firefighting instructions	 Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
CECTION C. Assidental valasse ma	
SECTION 6: Accidental release me	
	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Not	ify authorities if liquid enters sewers or public waters.
6.3. Methods and material for containn	nent and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
6.4. Reference to other sections	

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling ar				
7.1. Precautions for safe				
Precautions for safe handling	: W w T sp	when leaving work. Provide good ver ake precautionary measures agains	is with mild soap and water before eat, drink or smoke and ntilation in process area to prevent formation of vapor it static discharge. Use only non-sparking tools. Obtain ot handle until all safety precautions have been read and	
Hygiene measures	: W	ash thoroughly after handling.		
7.2. Conditions for safe s	storage, including an	y incompatibilities		
Technical measures	: G el	round/bond container and receiving lectrical/ventilating/lighting/ equip	gequipment. Use explosion-proof ment.	
Storage conditions		Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.		
Incompatible products	: S	trong bases. strong acids.		
Incompatible materials	: S	ources of ignition. Direct sunlight.		
7.3. Specific end use(s)				
No additional information availal	ble			
SECTION 8: Exposure c	ontrols/perso <u>nal</u>	protection		
8.1. Control parameters				
toluene (108-88-3) USA ACGIH	ACGIH TWA (ppm)		20 ppm	
00///00/11			20 ppm	
xylene, mixture of isomers (1330-20-7)			
USA ACGIH	ACGIH TWA (ppm)		100 ppm	
USA ACGIH	ACGIH STEL (ppm)		150 ppm	
Stoddard solvont (8052-41-3))			
Stoddard solvent (8052-41-3) USA ACGIH	ACGIH TWA (ppm)		100 ppm	
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1-methoxy-2-propanol (107-9	98-2)			
USA ACGIH	ACGIH TWA (ppm)		100 ppm	
USA ACGIH	ACGIH STEL (ppm)		150 ppm	
8.2. Exposure controls			·	
Personal protective equipment	: A	void all unnecessary exposure.		
Hand protection	: W	Vear protective gloves.		
Eye protection		hemical goggles or safety glasses.		
Skin and body protection		Vear suitable protective clothing.		
Respiratory protection		Vear approved mask.		
Other information	: W	/hen using, do not eat, drink or smo	ke.	
SECTION 9: Physical an	d chemical prop	erties		
9.1. Information on basic				
Physical state		iquid		
Color		colorless.		
Odor		haracteristic.		
Odor threshold		lo data available		
		lo data available		
pH Relative evaporation rate (butyl		lo data available		
Melting point		lo data available		
Freezing point		lo data available		
•		7.8 ℃		
Boiling point		7.8 ር 5 ሮ		
		o data available		
Sen ignition temperature		lo data available		
Flammability (solid, gas)		lo data available		
Vapor pressure		lo data available		
Relative vapor density at 20 °C		lo data available		
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Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available
Explosive limits	

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Not established. Flammable liquid and vapor.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures Heat.
10.5. Incompatible materials
strong acids. Strong bases.
10.6. Hazardous decomposition products
fume. Carbon monoxide. Carbon dioxide.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

toluene (108-88-3)	
LD50 oral rat	> 2000 mg/kg (5580 mg/kg bodyweight; Rat; Rat; Experimental value)
LD50 dermal rabbit	12223 mg/kg (>5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other,>5000 mg/kg bodyweight; Rabbit; Rabbit; Experimental value; Other)
LC50 inhalation rat (mg/l)	> 20 mg/l/4h (Rat)
xylene, mixture of isomers (1330-20-	7)
LD50 oral rat	3523 - 8600 mg/kg (3523 mg/kg bodyweight; >4000 mg/kg bodyweight; Rat; Rat; Rat; Experimental value; Experimental value)
LD50 dermal rabbit	> 4200 mg/kg (Rabbit; Experimental value,Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	29 mg/l/4h (27.57 mg/l/4h; Rat; Rat; Experimental value; Experimental value,27.57 mg/l/4h; Rat; Rat; Rat; Experimental value; Experimental value)
1-methoxy-2-propanol (107-98-2)	
LD50 oral rat	6600 mg/kg (4016 mg/kg bodyweight; Rat; Rat; Other; Experimental value,4016 mg/kg bodyweight; Rat; Rat; Other; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; Other,Rat; Experimental value; Other,Rat; Experimental value; Other)
LD50 dermal rabbit	13000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	55 mg/l/4h (Rat)
LC50 inhalation rat (ppm)	15000 ppm/4h (Rat)
2-methoxypropanol (1589-47-5)	
LD50 oral rat	5710 mg/kg (Rat)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	: Not classified

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Suspected of damaging fertility or the unborn child.Based on available data, the classification criteria are not met
Not classified
Not classifiedBased on available data, the classification criteria are not met
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Based on available data, the classification criteria are not met.
Causes skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

toluene (108-88-3)	
LC50 fish 1	24 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	84 mg/I (24 h; Daphnia magna; LOCOMOTOR EFFECT)
LC50 fish 2	13 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; TOXICITY TEST)
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)
xylene, mixture of isomers (1330-20-7)	
LC50 fish 1	13.5 mg/l (96 h; Lepomis macrochirus; LETHAL)
EC50 Daphnia 1	150 mg/l (24 h; Daphnia magna)
LC50 fish 2	3.77 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	7.4 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	72 mg/l (336 h; Selenastrum capricornutum; GROWTH)
Threshold limit algae 2	10 mg/l (72 h; Skeletonema costatum)
1-methoxy-2-propanol (107-98-2)	
LC50 fish 1	4600 - 10000 mg/l (96 h; Leuciscus idus; NOMINAL CONCENTRATION)
EC50 Daphnia 1	23300 mg/l (48 h; Daphnia magna; NOMINAL CONCENTRATION)
LC50 fish 2	20800 mg/l (96 h; Pimephales promelas)
Threshold limit algae 1	> 1000 mg/l (168 h; Pseudokirchneriella subcapitata; GROWTH RATE)
2.2. Persistence and degradability	
PETRA FUEL SYSTEM CLNR 12/12OZ	
Persistence and degradability	Not established.
toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. Not readily biodegradable in water. Biodegradable in the soil. Low potential for absorption in soil.
Biochemical oxygen demand (BOD)	2.15 g O ² /g substance
Chemical oxygen demand (COD)	2.52 g O ² /g substance
ThOD	3.13 g O ² /g substance
BOD (% of ThOD)	69 % ThOD
xylene, mixture of isomers (1330-20-7)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photolysis in the air.

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12.3. Bioaccumulative potential	
PETRA FUEL SYSTEM CLNR 12/12OZ	
Bioaccumulative potential	Not established.
toluene (108-88-3)	
BCF fish 1	13.2 (Anguilla japonica)
BCF fish 2	90 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	380 (24 h; Chlorella sp.; FRESH WEIGHT)
BCF other aquatic organisms 2	4.2 (Mytilus edulis; FRESH WEIGHT)
Log Pow	2.73 (Experimental value; Other; 20 °C, Experimental value; Other; 20 °C, Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
xylene, mixture of isomers (1330-20-7)	
BCF fish 1	15 8 weeks; Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	7 - 26 (8 weeks; Oncorhynchus mykiss)
Log Pow	3.2 (20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Stoddard solvent (8052-41-3)	
Bioaccumulative potential	Not established.
1-methoxy-2-propanol (107-98-2)	
BCF fish 1	1 (Pimephales promelas)
Log Pow	-0.46 (< 1; Estimated value; Experimental value; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-methoxypropanol (1589-47-5)	
Log Pow	-0.49 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. Mobility in soil	
toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)

Surface tension	0.03 N/m (20 °C)		
xylene, mixture of isomers (1330-20-7)			
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.		
12.5. Other adverse effects			
Other information	: Avoid release to the environment.		
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to		
Ecology - waste materials	: Avoid release to the environment.		

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SECTION 14: Transport information

In accordance with ADR	/ RID / ADNR / IMDG / ICAO / IATA
US DOT (ground):	UN1993, Flammable liquids, n.o.s (Xylene, Petroleum Distillates), 3, III, Limited Quantity
ICAO/IATA (air):	UN1993, Flammable liquids, n.o.s (Xylene, Petroleum Distillates), 3, III, Limited Quantity
IMO/IMDG (water):	UN1993, Flammable liquids, n.o.s (Xylene, Petroleum Distillates), 3, III, Limited Quantity
Special Provisions:	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal

14.2. UN proper shipping name	
DOT Proper Shipping Name	: Flammable liquids, n.o.s (Xylene, Petroleum Distillates)
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Hazard labels (DOT)	: 3 - Flammable liquids
	3
DOT Symbols	: G - Identifies PSN requiring a technical name
Packing group (DOT)	: III - Minor Danger
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
14.3. Additional information	
Other information	: No supplementary information available.
Overland transport No additional information available	
Transport by sea DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75)

SECTION 15: Regulatory information	on .
15.1. US Federal regulations	
Stoddard solvent (8052-41-3)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Fire hazard Immediate (acute) health hazard

15.2. International regulations

CANADA

Stoddard solvent (8052-41-3)	
WHMIS Classification Class B Division 3 - Combustible Liquid	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

No additional information available

cation of changes	: Revision - See : *.	
her information	: None.	
Ill text of H-phrases: see section 16		
Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)		Acute toxicity (oral) Category 4
Asp. Tox. 1		Aspiration hazard Category 1
Flam. Liq. 2		Flammable liquids Category 2
Flam. Liq. 3		Flammable liquids Category 3
Repr. 2		Reproductive toxicity Category 2
Skin Irrit. 2		skin corrosion/irritation Category 2
STOT RE 2		Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3		Specific target organ toxicity (single exposure) Category 3
H225		Highly flammable liquid and vapor
H226		Flammable liquid and vapor
H302		Harmful if swallowed
H304		May be fatal if swallowed and enters airways
H312		Harmful in contact with skin
H315		Causes skin irritation
H336		May cause drowsiness or dizziness
H361		Suspected of damaging fertility or the unborn child
H373		May cause damage to organs through prolonged or repeated
		exposure

SDS US (GHS HazCom 2012) - Technical Chemical

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The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product