

SAFETY DATA SHEET

1. Identification				
Product identifier	Crude Oil (Sour)			
Other means of identification				
SDS number	007			
Recommended use	Industrial use.			
Recommended restrictions	None known.			
Manufacturer / Importer / Supplie	er / Distributor information			
Company Name	WPX Energy Inc.			
Address	P.O. Box 3102			
	Tulsa, OK 74101			
Telephone Email	1-888-615-4561 Not Available			
Email Emergency phone number	3E Hotline 855-393-9881			
2. Hazard(s) identification				
Physical hazards	Flammable liquids	Category 1		
Health hazards	Acute toxicity, inhalation	Category 3		
	Serious eye damage/eye irritation	Category 2A		
	Germ cell mutagenicity	Category 1B		
	Carcinogenicity	Category 1A		
	Specific target organ toxicity, single exposure	Category 3 narcotic effects		
	Specific target organ toxicity, repeated exposure	Category 1 (Haematological system)		
	Specific target organ toxicity, repeated exposure	Category 2 (liver, spleen, thymus)		
	Aspiration hazard	Category 1		
Environmental hazards	Hazardous to the aquatic environment, long-term hazard	Category 2		
OSHA defined hazards	Not classified.			
Label elements				



Signal word	Danger
Hazard statement	Extremely flammable liquid and vapor. Toxic if inhaled. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Causes damage to organs (Haematological system) through prolonged or repeated exposure. May cause damage to organs (liver, spleen, thymus) through prolonged or repeated exposure.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. Collect spillage.

Storage Disposal

Hazard(s) not otherwise classified (HNOC)

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

Supplemental information Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Petroleum	8002-05-9	100
Benzene	71-43-2	<5
Polycyclic Aromatic Compounds	N/A	<=4
Hydrogen sulfide	7783-06-4	<=1

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Aspiration may cause pulmonary edema and pneumonitis. May cause respiratory irritation. May cause drowsiness or dizziness. Headaches, nausea and vomiting. Hydrogen sulfide, a highly toxic gas, may be present. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere. In high concentrations (500-1000 ppm), H2S acts as a systemic poison causing unconsciousness and death.
Indication of immediate medical attention and special treatment needed	Treat symptomatically. Symptoms may be delayed. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. May contain poisonous and flammable hydrogen sulfide vapor in container headspace.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
General fire hazards	Extremely flammable liquid and vapor

6. Accidental release measures

6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content, hydrogen sulfide (H2S) and flammability. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
Environmental precautions	Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS. Avoid release to the environment. Environmental manager must be informed of all major releases.
Environmental precautions 7. Handling and storage	
-	
7. Handling and storage	Avoid release to the environment. Environmental manager must be informed of all major releases. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Explosion-proof general and local exhaust ventilation is recommended. Provide adequate ventilation. May contain poisonous and flammable hydrogen sulfide vapor in container headspace. Before entering storage tanks and commencing any operation in a confined area, check the atmosphere for oxygen content, hydrogen sulfide (H2S) and flammability. Avoid contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Should be handled in closed systems, if possible. Wear appropriate personal protective

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	5 ppm	
	TWA	1 ppm	
US. OSHA Table Z-2 (29 CFR 191	0.1000)		
Components	Туре	Value	
Benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	20 ppm	
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Hydrogen sulfide (CAS 7783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
US. NIOSH: Pocket Guide to Che	emical Hazards		
Components	Туре	Value	
Benzene (CAS 71-43-2)	STEL	1 ppm	
. ,	TWA	0.1 ppm	
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	15 mg/m3	
, ,		10 ppm	

Components		Туре	v	alue
Petroleum (CAS 8002-05-	9)	Ceiling TWA		800 mg/m3 50 mg/m3
Biological limit values				
ACGIH Biological Expos	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmerca pturic acid	Creatinine in urine	*
* - For sampling details, pl	ease see the source	ce document.		
Exposure guidelines				
US - California OELs: Sk	in designation			
	Benzene (CAS 71-43-2) Can be absorbed through the skin. ACGIH Threshold Limit Values: Skin designation		ugh the skin.	
Benzene (CAS 71-43	-2)	Can be	e absorbed thro	ugh the skin.
Appropriate engineering controls	changes per applicable, us maintain airb	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Individual protection measur	es, such as perso	onal protective equipme	nt	
Eye/face protection	Wear safety	glasses with side shields	(or goggles).	
Skin protection				
Hand protection	Wear suitable	e gloves.		
Other	Wear suitable	e protective clothing.		
Respiratory protection	smell) lost at concentratior	Hydrogen sulfide impairs olfactory nerve function above 20 ppm, odor warning property (rotten egg smell) lost at higher concentrations. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
Thermal hazards	Wear approp	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	after handling	When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
9. Physical and chemic	al properties			
Appearance				

Physical state	Liquid.
Form	Liquid.
Color	Dark yellow to brown or greenish black.
Odor	Hydrocarbon. Rotten egg. Sulfurous.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	77 - 1000.4 °F (25 - 538 °C)
Flash point	< 30.0 °F (< -1.1 °C) (Reid Method)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1
Flammability limit - upper (%)	7
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.6 - 15 psi
Vapor density	> 1

Crude Oil (Sour)

Relative density	2.3 - 2.7
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	310
Decomposition temperature	Not available.
Viscosity	1.5 - 15 cSt
Other information	
VOC (Weight %)	> 50 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame. Prevent buildup of vapors or gases to explosive concentrations. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Ingestion may cause irritation and malaise.	
Inhalation	Toxic if inhaled. Vapors may cause drowsiness and dizziness. Headaches, nausea and vomiting.	
Skin contact	Prolonged or repeated contact may dry skin and cause irritation.	
Eye contact	Causes serious eye irritation.	
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Vapors may cause drowsiness and dizziness. Headaches, nausea and vomiting. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Exposure to high concentrations of hydrogen sulfide may result in respiratory paralysis and death.	

Information on toxicological effects

Acute toxicity	Toxic if inhaled.	
Components	Species	Test Results
Benzene (CAS 71-43-2)		
Acute		
Oral		
LD50	Rat	930 mg/kg
Hydrogen sulfide (CAS 7783-06-4)		
Acute		
Inhalation		
LC50	Rat	> 0.38 mg/l, 960 Minutes
Petroleum (CAS 8002-05-9)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritatio	n.
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory or skin sensitization	1	
Respiratory sensitization	No data available.	

Skin sensitization	No data av	No data available.			
Germ cell mutagenicity	May cause	May cause genetic defects.			
Carcinogenicity	May cause cancer.				
IARC Monographs. Overall Benzene (CAS 71-43-2) Petroleum (CAS 8002-05 NTP Report on Carcinogen	5-9)	1 Carcinogo 3 Not class	enic to humans. ifiable as to carcinogenicity to humans.		
Benzene (CAS 71-43-2) US. OSHA Specifically Reg	ulated Subst	Known To I ances (29 CFR 1910.1001-1050	Be Human Carcinogen. 0)		
Benzene (CAS 71-43-2)		Cancer			
Reproductive toxicity	No data av				
Specific target organ toxicity - single exposure	Vapors ma	Vapors may cause drowsiness and dizziness.			
Specific target organ toxicity - repeated exposure		Causes damage to organs (Haematological system) through prolonged or repeated exposure. May cause damage to organs (liver, spleen, thymus) through prolonged or repeated exposure by ingestion.			
Aspiration hazard	May be fat	al if swallowed and enters airway	ys.		
12. Ecological information	n				
Ecotoxicity		uatic life with long lasting effects	S.		
Components		Species	Test Results		
Benzene (CAS 71-43-2)					
Aquatic					
Crustacea	EC50	Water flea (Daphnia magna	a) 8.76 - 15.6 mg/l, 48 Hours		
Fish	LC50	Rainbow trout,donaldson tro (Oncorhynchus mykiss)	out 5.9 mg/l, 96 hours		
Hydrogen sulfide (CAS 7783- Aquatic	-06-4)				
Fish	LC50	Lake whitefish (Coregonus	clupeaformis) 0.002 mg/l, 96 hours		
Petroleum (CAS 8002-05-9)					
Aquatic					
Fish	LC50	Cutthroat trout (Oncorhynch	hus clarki) 2.1 - 4.3 mg/l, 96 hours		
Persistence and degradability	No data is	available on the degradability of	this product.		
Bioaccumulative potential	No data av	ailable for this product.			
Partition coefficient n-octar Benzene (CAS 71-43-2)	nol / water (lo	og Kow) 2.13			
Mobility in soil	No data av				
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.				
13. Disposal consideratio	ns				
Disposal instructions	Collect and	I reclaim or dispose in sealed co	ontainers at licensed waste disposal site.		
Hazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			
US RCRA Hazardous Waste	e U List: Refe	erence			
Benzene (CAS 71-43-2) Hydrogen sulfide (CAS 7	783-06-4)	U019 U135			
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).				
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.				
14. Transport information	l				
DOT					
UN number UN proper shipping name Transport hazard class(es)	UN1267 Petroleum	crude oil			
Class	3				

Marine pollutantYesSpecial precautions for userNot available.Special provisions144, 357, T11, TP1, TP8Packaging exceptions150Packaging non bulk201Packaging bulk201Packaging bulk201Packaging bulk201IATAUN 1267UN numberUN1267UN proper shipping namePetroleum crude oilTransport hazard class(es)3Subsidiary risk-Packing groupIEnvironmental hazardsYesERG Code3LSpecial precautions for userNot available.IMDGUN1267UN proper shipping namePETROLEUM CRUDE OILTransport hazard class(es)ClassSubsidiary risk-Packing groupIImtogUN1267UN proper shipping namePETROLEUM CRUDE OILTransport hazard class(es)-Class3Subsidiary risk-Packing groupIEnvironmental hazards-Marine pollutantYesEmSF-E, S-ESpecial precautions for userNot available.Marine pollutantYesEmSF-E, S-ESpecial precautions for userNot available.Marine pollutantYesEmSF-E, S-ESpecial precautions for userNot available.HatasHARPOL 73/78 andNot available.	Subsidiary risk Packing group Environmental hazards	-
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15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Benzene (CAS 71-	enzene (CAS 71-43-2)		Cancer Central nervous sy	ystem		
			Blood			
			Aspiration Skin			
			Eye			
			Respiratory tract in	rritation		
			Flammability			
CERCLA Hazardous S	Substance List (40	CFR 302.4)				
Benzene (CAS 71-	Benzene (CAS 71-43-2)		LISTED	LISTED		
Hydrogen sulfide (CAS 7783-06-4)			LISTED			
Superfund Amendments a	and Reauthorizatio	n Act of 1986 (S	SARA)			
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No					
SARA 302 Extremely	hazardous substar	nce				
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value	
Hydrogen sulfide	7783-06-4	100	500 lbs			
SARA 311/312 Hazard chemical	lous Yes					

Chemical name	CAS number	% by wt.
Petroleum	8002-05-9	100
Benzene	71-43-2	<5
ner federal regulations		
Clean Air Act (CAA) Section 112 Hazardous Ai	r Pollutants (HAPs) List	
Benzene (CAS 71-43-2) Petroleum (CAS 8002-05-9)		
Clean Air Act (CAA) Section 112(r) Accidental	Release Prevention (40 CFR	68.130)
Hydrogen sulfide (CAS 7783-06-4)		
Safe Drinking Water Act Not regulated. (SDWA)		
state regulations		
US. Massachusetts RTK - Substance List		
Benzene (CAS 71-43-2) Hydrogen sulfide (CAS 7783-06-4) Petroleum (CAS 8002-05-9)		
US. New Jersey Worker and Community Right	-to-Know Act	
Benzene (CAS 71-43-2)		
Hydrogen sulfide (CAS 7783-06-4)		
Petroleum (CAS 8002-05-9)		
US. Pennsylvania Worker and Community Rigl	ht-to-Know Law	
Benzene (CAS 71-43-2) Hydrogen sulfide (CAS 7783-06-4) Petroleum (CAS 8002-05-9)		
US. Rhode Island RTK		
Benzene (CAS 71-43-2) Hydrogen sulfide (CAS 7783-06-4)		
US. California Proposition 65		
US - California Proposition 65 - Carcinoge	ns & Reproductive Toxicity	(CRT): Listed substan
Benzene (CAS 71-43-2)		,
\ /		

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	27-September-2017
Revision date	27-February-2014
Version #	03



References

Disclaimer

EPA: Acquire database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents This information is provided without warranty. The information is believed to be correct.

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.