

	SAFETY	D.	ATA S	HEE	T		
	SECTION 1	♦	IDENTIFI	CATIC	DN		
Explorer Pipeline Company 6120 South Yale Ave., Suite 1100 Tulsa, OK 74136		FOR EMERGENCY SOURCE INFORMATION CONTACT: ◆ (918) 493 - 5100					
GHS PRODUCT IDENTIFIER: Unlea All Grades EPL Code: 22, 26, 3E, 4E, 3C, 3D, 3 3V, 3X, 4C, 4D, 4 F, 4G, 4H, 4J, 4K, 4U, 4X, 31-38 and 40-49	R, 3S, 3T, 3U,		HEMICAL FA	USES: Used primarily ource for internal on engines.			
SECT	FION 2 * HA	ZA	RDS IDE	NTIFI	CAT	ON	
	GHS C	CLAS	SSIFICATION	IS			
Aspiration Hazard - Category 1	Carcinogenic	ity -	- Category	1A	Flaı	nmable Li	quid - Category 1
Germ Cell Mutagenicity - Category 1B	– A	Aquatic cute Hazar	d -	Skin 2	n Corrosio	n/Irritation - Category	
Specific Target Organ Toxicity (Ro Category 1 (liver, kidneys, bladder marrow, nervous system)) -	- Specific Target Organ Toxicity (Single Exposure Category 3 (respiratory irritation, narcosis)					
Hazardous to the Aquatic Environment – Chronic Hazard - Category 2				Tox 1A	Toxic to Reproduction - Category 1A		
			EL ELEMENT				
	Gasoline, U		aded, All	Grade	es		
(HS PICTOGRAM	MS		1			SIGNAL WORD
		~		<			DANGER
	HAZAF	RD S	TATEMENT	S			
Causes damage to organs (liver, kidne bone marrow, nervous system) thro repeated exposure.	eys, bladder, bloo ugh prolonged or	od,			al if sv	wallowed an	nd enters airways.
Causes skin irritation.	Harmful	to ac	quatic life.				nable liquid and vapor.
May damage fertility or the un				2	ause		or dizziness.
May cause genetic defects.	May cause r	-				May	cause cancer.
			RY STATEM	IENTS			
Keep away from heat/sparks/open flar			ention smoking K	Ceen co	ntaina	er tightly al	nsed
Ground/bond container and receiving		0	Use only n				
Use explosion-proof electrical/ ventila		uipr		1	0		
Take precautionary measures against			Keep out o		of ch	ildren	
Wear protective gloves/protective clo	~ / /	ion/			, . .	1.0	
Wash hands and forearms thoroughly	atter handling.		Obtain spe				
Do not breathe mist/vapors/spray.			Use only o	uldoors	s or in	weii-ventil	aleu area.



Do not eat, drink or smoke when using th	Do not eat, drink or smoke when using this product. Avoid release to the environment.										
Do not handle until all safety precautions	have been read and understood.										
	Response										
In case of fire: Use water spray, fog, dry		eld fire extinguisher.									
IF exposed or concerned: Get medical advice/attention.											
IF ON SKIN (or hair): Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing											
and wash before reuse. If skin irritation occurs, get medical advice/attention.											
IF INHALED: Remove victim to fresh air		table for breathing. Call a poison control									
center or doctor/physician if you feel unw											
Get medical advice/attention if you feel u											
IF SWALLOWED: Immediately call a PO		n. Do not induce vomiting.									
	Storage										
Store in a well-ventilated place Keep co		Keep container tightly closed									
	Disposal										
Dispose of contents/container in accordan		national regulations.									
	SUPPLIER INFORMATION										
	120 South Yale Ave., Suite 1100	Tulsa, Oklahoma 74136									
SECTION 3 V COMPOSITION/INFORMATION OF INGREDIENTS											
INGREDIENT	INGREDIENT CAS NUMBER PERCENTAGE (%)										
Gasoline	86290-81-5	60-100									
Toluene	108-88-3	10-30									
Xylenes (o-, m-, p- isomers)	1330-20-7	10-30									
Hexane	110-54-3	5-10									
Benzene	71-43-2	5-10									
Trimethyl benzene	25551-13-7	1-5									
1,2,4-Trimethyl benzene	95-63-6	1-5									
Cumene	98-82-8	1-5									
Cyclohexane	110-82-7	1-5									
Ethyl benzene	100-41-4	1-5									
Naphthalene	91-20-3	1-5									
Styrene	100-42-5	0.1-1									
	TION 4 + FIRST AID MEASU	IRES									
EYES: Immediately flush eyes with plent											
SKIN: Quickly remove contaminated clot	hing and immediately flush skin with	plenty of soap and water while removing									
contaminated clothing and shoes. Get me	edical aid if irritation develops or pers	sists.									
INGESTION: Do not induce vomiting. Ca	INGESTION: Do not induce vomiting. Call a physician and/or transport to an emergency facility immediately.										
INHALATION: Get medical aid immediat	•	air immediately. If not breathing, give									
cardiopulmonary resuscitation. If breathi	· · · · · · · · · · · · · · · · · · ·										
NOTE TO PHYSICIAN	I: TREAT SYMPTOMATICALLY A	AND SUPPORTIVELY									

SECTION 5 **#** FIRE-FIGHTING MEASURES

SEE SECTION 9 FOR FLAMMABILITY PROPERTIES

EXTREMELY FLAMMABLE! This material releases vapors at or below ambient temperatures. When mixed with air in certain proportions and exposed to an ignition source, these vapors can burn in the open or explode in confined spaces. Being heavier than air, flammable vapors may travel long distances along the ground before reaching a point of ignition and flashing back.



SUITABLE EXTINGUISHING MEDIA: Water fog, dry chemical, foam, or Carbon Dioxide. Use water spray to cool nearby containers and structure exposed to fire. Water fog or spray are of value in cooling tanks and containers but may not achieve extinguishment.

HAZARDOUS REACTIONS/DECOMPOSITION: Burning or excessive heating may produce carbon monoxide and carbon dioxide, also other harmful gases/vapors including oxides and/or other compounds of chlorine, manganese, and bromine.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS: For fires involving this material, do not enter any enclosed or confined space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of combustion products and oxygen deficiencies. If firefighters cannot work upwind of the fire, respiratory protective equipment must be worn. Cool tanks and containers exposed to fire with water. Burning liquid will float on water. Notify appropriate authorities if liquid enters sewer/waterways.

SECTION 6 * ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Use personal protective equipment. All equipment used when handling the product must be grounded. Ensure adequate ventilation. Take precautionary measures against static discharges. Keep people away from and upwind of spill/leak. Stop leak if you can do so without risk.						
METHODS FOR CONTAINMENT	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dike far ahead of liquid spill for later disposal.						
METHODS FOR CLEANING UP	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.						
OTHER INFORMATION	Water spray may reduce vapor but may not prevent ignition in closed spaces.						
SEC	TION 7 💥 HANDLING AND STORAGE						
Prior to working with this	product workers should be trained on its proper handling and storage						
PRECAUTIONS FOR SAFETY Handling	 ◆ Use only as a motor fuel. ◆ Do not siphon by mouth. ◆ Handle as a flammable liquid. ◆ Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. ◆ Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when higher flash point material (such as fuel oil) is loaded into tanks previously containing low flash point products (such as this product) - see API Publication 2003, "Protection Against Ignitions Arising Out of Static, Lightning and Stray Currents." 						
STORAGE PROCEDURES	 Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition. Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. 						
INCOMPATIBILITIES	★ Keep away from strong oxidizers.						



	SECTION 8									
ACGIH TLV (2019)	OSHA PEL	NIOSH IDLH								
TWA: 20 ppm	TWA: 200 ppm	500 ppm								
TWA: 100 ppm STEL: 150 ppm	TWA: 100 ppm	900 ppm								
TWA: 50 ppm Skin	TWA: 500	1,100 ppm								
TWA: 0.5 ppm STEL: 2.5 ppm <i>Skin</i>	TWA: 1 ppm STEL: 5	500 ppm								
Trimethyl benzene TWA: 25 ppm Not Applicable Not Appl										
-Trimethyl benzene TWA: 25 ppm Not Applicable										
Cumene TWA: 50 ppm TWA: 50 ppm										
Cyclohexane TWA: 100 ppm TWA: 300 ppm										
TWA: 20 ppm	TWA: 100 ppm	800 ppm								
TWA: 10 ppm STEL: 15 ppm <i>Skin</i>	TWA: 10 ppm	250 ppm								
TWA: 20 ppm STEL: 40 ppm	TWA: 100 ppm Ceiling: 200	700 ppm								
		is product below								
	TWA: 100 ppm STEL: 150 ppmSTEL: 150 ppmTWA: 50 ppmSkinTWA: 0.5 ppmSTEL: 2.5 ppmSTEL: 2.5 ppmTWA: 25 ppmTWA: 25 ppmTWA: 50 ppmTWA: 100 ppmTWA: 100 ppmTWA: 10 ppmSTEL: 15 ppmSTEL: 15 ppmSTEL: 40 ppmSTEL: 40 ppmSTEL: 40 ppmSTEL: 40 ppmSTEL: 40 ppmSTEL: 40 ppmStand flammability limits, pUIPMENTNSI Z87.1 approved) should suitable eyewash station shou potective clothing is recommend terial may vary from product as for specific information.	TWA: 100 ppmTWA: 100 ppmSTEL: 150 ppmTWA: 100 ppmTWA: 50 ppmTWA: 500SkinTWA: 0.5 ppmTWA: 0.5 ppmTWA: 1 ppmSTEL: 2.5 ppmSTEL: 5SkinSTEL: 5TWA: 25 ppmNot ApplicableTWA: 50 ppmTWA: 50 ppmTWA: 100 ppmTWA: 50 ppmTWA: 100 ppmTWA: 300 ppmTWA: 100 ppmTWA: 100 ppmTWA: 100 ppmTWA: 100 ppmTWA: 10 ppmTWA: 100 ppmSTEL: 15 ppmTWA: 10 ppmSTEL: 40 ppmCeiling: 200Jse adequate ventilation to keep vapor concentrations of th ts and flammability limits, particularly in confined areas.UIPMENTNSI Z87.1 approved) should be worn whenever there is a Suitable eyewash station should be available. Contact lenses n otective clothing is recommended based on a thorough PPE haza terial may vary from product to product as well as with degrees								

- HAND PROTECTION: Gloves constructed of mirne, neoprene, or PVC are recommended. Consult manufacturer specifications for specific information.
 DESDID TODY PROTECTION: A NIOSU engressed sin purifying mensional (ADD) with mensional englishing and the second sin purifying mensional second secon
- RESPIRATORY PROTECTION: A NIOSH approved air purifying respirator (APR) with properly selected cartridges may be permissible under certain circumstances where airborne concentrations may exceed exposure limits. Protection provided by APRs is limited, calculate the maximum use concentration for the exposure situation. Use a positive pressure air supplied (Grade D) respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where APRs may not provide adequate protection.
- ◆ OTHER HYGIENIC AND WORK PRACTICES: Safety shower and eyewash or equivalent should be available for emergency use. Use good personal hygiene practices. In case of skin contact, wash with mild soap and water or a waterless hand cleaner. Immediately remove soaked clothing and wash thoroughly before reuse.

SECTION 9 🗲 PHYSICAL AND CHEMICAL PROPERTIES								
BOILING POINT (760 MM HG): 104 °F/38 °C	PERCENT VOLATILE BY VOLUME: Slight - 100%							
SPECIFIC GRAVITY ($H_2O = 1$): 0.72	VISCOSITY UNITS, TEMP: < 1.4 cSt @ 37.7 °C							
EVAPORATION RATE (BuAc = 1): Unavailable	VAPOR DENSITY (AIR =1): 4							
VAPOR PRESSURE AT 25°C: 400 mm Hg	SOLUBILITY IN WATER: Negligible							
APPEARANCE AND ODOR: Reddish golden-brown li	iquid; petroleum distillates odor.							
FLASH POINT: (Method Used) -40 °F/-40 °C	FLAMMABLE LIMITS:LEL: 1.4% UEL: 7.6%							



AUTOIGNITION TEMPERATURE: 49-850 °F / 9.4-454 °C VOC CONTENT: 100%

SECTION 10 X STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures

HAZARDOUS REACTION POTENTIAL: Will not occur

CONDITIONS TO AVOID: Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.

INCOMPATIBLE PRODUCTS: Keep away from strong oxidizers.

MATERIALS TO AVOID: Contact with nitric and sulfuric acids will form nitrocresols that can decompose violently.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

HAZARDOUS POLYMERIZATION: Has not been reported

OTHER PHYSICAL AND CHEMICAL PROPERTIES: If uninhibited, gasoline will cause rusting of copper and alloys containing copper.

SECTION 11 TOXICOLOGICAL INFORMATION

GASOLINE

Aspiration of gasoline into the lungs will cause chemical pneumonia. Liquid, mist, or vapors can cause eye, skin and respiratory tract irritation and CNS depression. Mild eye irritation may result from contact with liquid, mist, and/or vapors. Liquid may penetrate skin to cause central nervous system depression. Vapor penetration can also cause systematic effects. Skin irritation or more serious disorders may occur upon prolonged and repeated contact due to skin defatting. Irritation of the mouth, throat, and gastrointestinal tract leading to nausea, vomiting, diarrhea and restlessness. CNS Depression similar to that caused by vapor inhalation. Exposure can cause irritation to the nose, throat, and lungs and signs of CNS depression (dizziness, drowsiness, loss of coordination, coma and death), depending on the concentration/duration of exposure. Long-term exposure to unleaded gasoline has also produced kidney damage in laboratory animals. The exact relationship between these results and possible human effects is not known. Persons with pre-existing skin disorders, impaired liver or kidney function, or CNS and chronic respiratory diseases should avoid exposure to this material. This material may contain benzene at concentrations above 0.1%. Benzene is considered to be a known human carcinogen by OSHA, IARC and NTP.

	Toxicity											
Type of Dose	Specie	Result	Type of Dose	Specie	Result	Type of Dose	Specie	Result				
LD _{50(oral)}	Rat	Not Available	LD _{50(dermal)}	Rabbit	Not Available	LC _{50(inh)}	Rat (5 minutes)	300 g/M ³				
	V2200000											

RTECS #: LX3300000

TOLUENE

The most common effect of overexposure to toluene is irritation of the mucous membranes, skin and central nervous system depression (headaches, lassitude, light-headedness, incoordination, fatigue, decreased reaction time, etc.). Unlike closely related compound benzene, toluene does not appear to be toxic to the bone marrow. No synergistic effects data available. For the skin, prolonged and repeated exposure can caused defatting and dermatitis.

				Тох	ICITY					
Type of Dose	Specie	Result	Type of Dose	Specie		Result	Type of Dose	Specie	Result	
LD _{50(oral)}	Rat	636 mg/kg	LD _{50(dermal)}	Rabbit		14.1 mL/kg	LC _{50(inh)}	Rat (4 hours)	49 g/M ³	
Specific organ toxicity, single exposure: No data available						Specific organ toxicity, repeated exposure: No data available				



				CARCING	GENI	CITY				
IARC	•	uate evider animals	nce in	Inadequ	iate ev	idence in hum	nans Gi	oup 3: not c human c		
NTP					No	ot Listed				
California Listed as ca	· • /	NIO	SH: Not L	isted	ACGIH:A4-Not Classifiable As Human Carcinogen Listed					DSHA: Not Listed
	MU'	TAGENICI	TY, TERAT	OGENIC	ITY AN	D REPRODUC	CTIVE EFFI	ECTS		
Respiratory or	Skin sensitiza	tion: No d	lata availab	le	Germ cell mutagenicity: Genotoxicity in vitro-rat: Liver and DNA damage					
Reproductive t rats	oxicity: Have	been shov	vn in male/	female	Teratogenicity: Developmental-rat: Fetotoxicity, stunted fetus. Suspected human reproductive toxicity.					
Skin Corrosion/irritation: Skin-rabbit: irritation over 24 hours					Serio	ous eye damag	ge, irritation	-rabbit: No	o data	a available
Synergistic eff	ects: No data a	available			Aspi	ration hazard:	No data av	ailable		
RTECS #: XS	5250000									
XYLENE Xylene vapor may cause irritation of the eyes, nose, and throat. At high concentrations, xylene vapor may cause severe breathing difficulties which may be delayed in onset. At high concentrations, it may also cause dizziness, staggering, drowsiness, and unconsciousness. In addition, breathing high concentrations may cause loss of appetite, nausea, vomiting, and abdominal pain. Liquid xylene may be irritating to the eyes and skin. Exposure to high concentrations of xylene vapor may cause reversible damage to the kidneys and liver. Repeated or prolonged exposure to xylene may cause a skin rash. Repeated exposure of the eyes to high concentrations of xylene vapor may cause reversible eye damage.										
Toxicity										
Type of Dose	Specie	Result	Type of Dose		ecie	Result	Type of Dose	Speci	e	Result
LD _{50(oral)}	Rat 4	4.3 g/kg	LD _{50(derma}	a) Ral	obit	1,700 mg/kg	LC _{50(inh)}	C _{50(inh)} Rat (4 hours		5,000 ppm
Specific organ available	toxicity, singl	e exposur	e: No data	·	Spec avail	ific organ tox able	icity, repea	ted exposure	e: N	o data
				CARCINO	OGENI	CITY				
IARC		uate eviden animals	nce in	Inadequ	iate ev	idence in hum	nans G1	oup 3: not c		
NTP		+		1	_	t Carcinogen			-i	
California (Pu Listed as ca	L /		H: Occupa Carcinogen		A	CGIH:A4-N Human	lot Classifia Carcinoger		(DSHA: Not Listed
						D REPRODUC				
Respiratory or				le		n cell mutager			e	
Reproductive t				2.4	Terat	togenicity: No	o data availa	able		
Skin Corrosior hours			irritation ov	ver 24		ous eye damag			d ey	e irritation
	Synergistic effects: No data available Aspiration hazard: No data available									
RTECS #: ZE2	2100000									
				HE.	XANE					
May cause resp cause drowsing reported in ani	ess and dizzin	ess. Chro	nic exposu	re may c	ause li	ver damage.	Adverse re			



Τοχιςιτγ												
Type of			Type of	104			Type of					
Dose	Specie	Result	Dose	Spe	ecie	Result	Dose	Specie		Result		
LD _{50(oral)}	Rat	15.8 g/kg	LD _{50(dermal)}	Rał	obit	No Data	LC _{50(inh)}	Rat (4 hours)	48,000 ppm		
Specific orga	n tovicity si	ngle exposur	e. May cause			ific organ tox						
drowsiness o		ligic exposure	c. May cause	/	damage to organs from repeated or prolonged exposure.							
diowsiness o	I UIZZIIICSS				May	cause nervou	s system dam	nage.				
Testicular tur	mors shown	in rats.	CA	RCINC)GENI	CITY						
IARC					No	ot Listed						
NTP					No	ot Listed						
California (listed as	Prop 65): N carcinogen	ot NIO	ed		ACGIH	: Not Listed		(DSHA: Not Listed			
	Ν	IUTAGENICI	TY, TERATO	GENICI	ITY AN	D REPRODUC	CTIVE EFFEC	CTS				
Respiratory or Skin sensitization: No data available Germ cell mutagenicity: No data available												
Reproductive	e toxicity: ov	erexposure m	ay cause									
reproductive disorders based on lab animals. May damage fertility in humans.						togenicity: No	o data availab	ole				
Skin Corrosi	on/irritation:	No data avai		Serio	ous eye damag	ge, irritation -	rabbit: mil	ld ey	e irritation			
Synergistic effects: No data available						Aspiration hazard: May be fatal if swallowed and enters airway.						
RTECS #: MN9275000												
BENZENE												
Acute inhalation effects may cause respiratory tract irritation drowsiness, unconsciousness, and central nervous system depression. Potential symptoms of overexposure by inhalation are dizziness, headache, vomiting, visual disturbances, staggering gait, hilarity, fatigue, and other symptoms of CNS depression. Chronic exposures may cause bone marrow abnormalities with damage to blood forming tissues. May cause anemia and other blood cell abnormalities. Chronic exposure to benzene has been associated with an increased incidence of leukemia and multiple myeloma (tumor composed of cells of the type normally found in the bone marrow). This substance has caused adverse reproductive and fetal effects in laboratory animals.												
		4			kicity	2						
Type of Dose	Specie	Result	Type of Dose	Spe	ecie	Result	Type of Dose	Specie	;	Result		
LD _{50(oral)}	Rat	930 mg/kg	LD _{50(dermal)}	Rat	obit	9.4 ml/kg	LC _{50(inh)}	Mouse (4 hours		9,980 ppm		
Specific orga drowsiness o		ngle exposure	e: May cause	;	Specific organ toxicity, repeated exposure: may cause damage to organs from repeated or prolonged exposure. May cause nervous system damage.							
			CA	RCINC)GENI(CITY						
IARC	Sufficie	nt evidence in	n animals	Suffici	ent evi	dence in hum	ans Group	1: classifi carcir		e as a human en		
NTP					Ca	rcinogen						
California (Prop 65):NIOSH: PotentialListed as carcinogenOccupational Carcinogen					ACGIH: A1 - Confirmed human carcinogen					SHA: Select Carcinogen		
	Ţ			-	ITY AN		-	CTS		U		
Respiratory of	MUTAGENICITY, TERATOGENIC Respiratory or Skin sensitization: No data available						Germ cell mutagenicity: lab testing shows mutagenic effects (in vivo). Genotoxicity in humans (in vivo) lymphocyte. Genotoxic damage shown in mice.					



Reproductive toxicity: inhalation toxicity in mouse, including embryonic and fetal effects including death						 Teratogenicity: Rat inhalation include effects include stunted fetus and death Mouse inhalation include effects include cytological changes and abnormalities to blood and lymphatic system. 					
Skin Corrosi	on/irritation:	will cause sk	in irritation		Serio	us eye damag	ge, irritation -	rabbit: mild	eye irritation		
Synergistic e	ffects: damag	e to bone ma	arrow		Aspin airwa		May be fata	l if swallow	ed and enters		
RTECS #: C	Y1400000					-					
			Trin	METHY	L BEN	ZENE					
investigated. dizziness or s	May cause of suffocation. H lities. Prolor	drowsiness, Prolonged or nged exposu	unconsciousn repeated skin	less, an i contac ice a n	nd centred technologies and centred technologies and tech	tral nervous cause derma	system depre titis. May ca	ession. Vap use anemia	e not been fully pors may cause and other blood sure may cause		
				Tox	ICITY			1			
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result		
LD _{50(oral)}	Rat	8.97 g/kg	LD _{50(dermal)}	Rat	obit	No Data	LC _{50(inh)}	Rat (4 hours)	No Data		
Specific orga available	n toxicity, sir	ngle exposure	e: No data		Spect	ific organ tox able	icity, repeate	d exposure:	No data		
			CA	RCINO							
IARC Not Listed											
	Prop 65): No carcinogen	ot NIOS	SH: Not List	ed	NC	ot Listed ACGIH	: Not Listed		OSHA: Not Listed		
	N	IUTAGENICI	TY, TERATO	GENICI							
Respiratory of	or Skin sensiti	ization: No d	ata available			n cell mutager tive results	nicity: test pe	rformed on	rats showed		
Reproductive					Teratogenicity: No data availableSerious eye damage, irritation -rabbit: mild eye irritation						
Skin Corrosi	on/irritation:	No data avai	lable								
Synergistic e	ffects: No dat	a available			Asp1 airwa	ration hazard:	May be fata	1 11 swallow	ed and enters		
RTECS #: D	C3220000					- <u></u>					
			1,2,4 T	RIMET	HYL B	ENZENE					
investigated. dizziness or s	May cause of suffocation. H lities. Prolor	drowsiness, Prolonged or nged exposu	unconsciousn repeated skin	less, an l contac lice a n	nd centred technologies and centred technologies and tech	tral nervous cause derma	system depre titis. May ca	ession. Vap use anemia	e not been fully oors may cause and other blood sure may cause		
			1	Тох	ICITY			[
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result		
LD _{50(oral)}	Rat	5.0 g/kg	LD _{50(dermal)}	Rat	bit	No Data	LC _{50(inh)}	Rat (4 hours)	18 g/M ³		
Specific orga available	n toxicity, sir	ngle exposure	e: No data		Spec: avail	ific organ tox able	icity, repeate	d exposure:	No data		



			CA	RCINC	GENI	CITY			
IARC						ot Listed			
NTP					No	ot Listed		i-	
California (Listed as	Prop 65): N carcinogen	ot NIO	SH: Not List	ed		ACGIH	: Not Listed		OSHA: Not Listed
		IUTAGENICI	TY, TERATO	GENICI	TY AN	D REPRODUC	CTIVE EFFEC	TS	
Respiratory of					Gern	n cell mutager tive results			rats showed
Reproductive	e toxicity: No	data availab	le			ogenicity: No	o data availab	le	
Skin Corrosi						<u> </u>			eye irritation
Synergistic e						ration hazard:			ed and enters
RTECS #: D	C3325000				I	5			
Cumene									
Cumene may cause irritation of the skin and eyes. It may also cause dizziness, drowsiness, slight incoordination, and unconsciousness. At very high concentrations, it may cause narcotic symptoms. Prolonged or repeated exposure to Cumene may cause skin rash.									
Τοχιζιτή									
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result
LD _{50(oral)}	Rat	1.4 g/kg	LD _{50(dermal)}	Rat	obit	No Data	$LC_{50(inh)} \qquad \begin{array}{c} Rat \\ (4 \text{ hours}) \end{array}$		39 g/M ³
Specific organ toxicity, single exposure: May cause respiratory irritationSpecific organ toxicity, repeated exposure: No data available								No data	
CARCINOGENICITY									
IARC					No	ot Listed			
NTP		_			No	ot Listed			
	a (Prop 65): carcinogen	NIO	SH: Not List	ed	ACGIH: Not Listed OSHA: Not Listed				
	Ν	IUTAGENICI	TY, TERATO	GENICI		D REPRODUC			
Respiratory of sensitization	or Skin sensit	ization: Testi	ng showed no	0		n cell mutager tive results	nicity: test pe	rformed on	rats showed
Reproductive	e toxicity: No	data availab	le		Terat	ogenicity: No	o data availab	le	
Skin Corrosi	on/irritation:	Testing show	ved no irritatio	on	Serio irrita	ous eye damag tion	ge, irritation-7	Festing show	wed no
Synergistic e	ffects: No da	ta available			Aspir airwa	ration hazard:	May be fata	l if swallow	ed and enters
RTECS #: G	R8575000					•			
			(CYCLO	HEXA	NE			
May cause re skin contact i				vapors	may ca	ause drowsine	ess and dizzir	ness. Prolor	nged or repeated
				Tox	ICITY				
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result
LD _{50(oral)}	Rat	5 g/kg	LD _{50(dermal)}	Rat	obit	>180 g/kg	LC _{50(inh)}	Rat (4 hours)	>9,500 ppm
Specific orga drowsiness o		ngle exposur	e: May cause	;	Spec avail	ific organ tox able	icity, repeate	d exposure:	No data



			CA	RCINO	GENI	CITY				
IARC						ot Listed				
NTP					No	ot Listed				
California (I Listed as	Prop 65): N carcinogen	ot NIOS	SH: Not List	ed		ACGIH	: Not Listed		OSHA: Not Listed	
		IUTAGENICI	TY, TERATO	GENICI	TY AN	D REPRODUC	CTIVE EFFEC	CTS		
Respiratory o	r Skin sensit	ization: No d	ata available		Gern	n cell mutager	nicity: No da	ta available		
Reproductive toxicity: No data available Teratogenicity: No data available										
Skin Corrosic	on/irritation:	Testing show	ed no irritatio	on					eye irritation	
Synergistic ef	fects: No da	ta available			Aspi airwa		: May be fata	l if swallow	ed and enters	
RTECS #: GU6300000										
				THYL E						
Exposure to ethyl benzene may cause irritation of the skin and mucous membranes. It may also cause transient eye irritation at concentrations of 200 ppm. Breathing very high levels can cause dizziness and throat and eye irritation. Breathing lower levels has resulted in hearing effects and kidney damage in animals.										
T (— (TOX	ICITY	Γ	—			
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result	
LD _{50(oral)}	Rat	3.5 g/kg	LD _{50(dermal)}	Rab	bit	17.8 mL/kg	LC _{50(inh)}	Rat (4 hours)	55 g/M ³	
Specific organ toxicity, single exposure: No data available Specific organ toxicity, repeated exposure: No data available										
CARCINOGENICITY										
IARC	Sufficie	nt evidence in	n animals I	nadequ	ate ev	idence in hun	nans Group	o 2B: Possib to hun	ly carcinogenic nans	
NTP					No	ot Listed				
	(Prop 65): carcinogen		H: Occupatio	onal	ACGIH:A4-Not Classifiable As Human Carcinogen OSHA: Carcinogen					
				GENICI		D REPRODUC				
Respiratory o						n cell mutager				
Reproductive						togenicity: No				
Skin Corrosic			lable			ous eye damag			ata available	
Synergistic ef		ta available			Aspi	ration hazard	: No data ava	ilable		
RTECS #: D	A0700000									
			Ι	VAPHT	HALE	NE				
	umans expos	sed to naphth	alene for eith	er shor iver da	t or lo mage.	ng periods of	time. Other	effects may	e primary health include nausea, mage.	
			T î	TOX	ICITY	Γ	T î		-	
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result	
LD _{50(oral)}	Rat	490 mg/kg	LD _{50(dermal)}	Rab	bit	>20 g/kg	LC _{50(inh)}	Rat (1 hour)	No Data	
Specific organ	n toxicity, si	ngle exposure	e: No data		-	ific organ tox	icity, repeate	ed exposure:	No data	
available					avail	able				



CARCINOGENICITY											
IARC	Sufficier	Sufficient evidence in animals Inadequ			uate evidence in humans Group 2B: Possibly carcinogeni to humans			÷			
NTP Listed as reasonably anticipated to be a human carcinogen											
California (Prop 65):NIOSH: Not ListedListed as carcinogenNIOSH: Not Listed			ACGIH: Not Listed			(DSHA: Not Listed				
MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS											
Respiratory or Skin sensitization: No data available Germ cell mutagenicity: No data available											
Reproductive toxicity: No data available Teratogenicity: No data available											
Skin Corrosion/irritation: Testing showed no irritation Serious eye damage, irritation-rabbit: mild eye irritation								e irritation			
Synergistic effects: No data available Aspiration hazard: No data available											
RTECS #: QJ0)525000										
				STY	RENE						
Styrene can cause eye and upper respiratory irritation at concentrations of over 100 ppm; when concentrations reach over 350 ppm, irritation is strong and neurological impairment is observed. Central nervous system depression (tiredness, headache and dizziness) has been observed at concentrations between 200-700 ppm.											
		/			ICITY			1.			
Type of Dose	Specie	Result	Type of		ecie	Result		pe of ose	Speci	e	Result
LD _{50(oral)}	Rat	at 2.65 g/kg		l) Rabbit		No Data	LC	50(inh)	Rat (1 hou	r)	11.8 g/M ³
Specific organ toxicity, single exposure: No data availableSpecific organ toxicity, repeated exposure: No data available											
	•		(CARCINC)GENI(CITY					
IARC	IARC Sufficient evidence in animals Inadequate evidence in humans Group 2B: Possibly carcinogenic to humans										
NTP Listed as reasonably anticipated to be a human carcinogen											
California (Prop 65): Listed as carcinogenNIOSH: Not ListedACGIH: Not ListedOSHA: Not Listed											
	N	IUTAGENICI	ty, Terat	OGENIC		D REPRODUC					
Respiratory or Skin sensitization: No data available Germ cell mutagenicity: Lab experiments have shown mutagenic effects.											
Reproductive toxicity: No data available Teratogenicity: No data available											
Skin Corrosion/irritation: Testing showed no irritation Serious eye damage, irritation-rabbit: mild eye irritation								e irritation			
Synergistic effects: No data available Aspiration hazard: No data available											
RTECS #: WI	.3675000										
		SECTIO	DN 12 🟶	ECOL	OGIC	AL INFOR	MAT	ION			
GASOLINE											
Тохісіту											
Type of Dos	e	Specie	Rest	ult	Ту	pe of Dose		Specie			Result
LC ₅₀			No D	ata		EC ₅₀	-				No Data
EC ₅₀		No Data		ata		EC ₅₀	1	Microto	ох		1.5 mg/L •8 Hours
PERSISTENCE AND DEGRADABILITY											
Readily biodegradable in the environment. The presence of ethanol in this product may impede the biodegradation of benzene, toluene, ethyl benzene and xylene in groundwater, resulting in elongated plumes of these constituents.											
BIOACCUMULATIVE POTENTIAL											
Log Pow			2	2.1 - 6.0	BCF						No Data



SDS # EXPL-2

		MOBILIT	TY IN SOIL					
K _{oc} (Soil/water Partition Coefficient) No Data								
			UENE					
Τοχιςιτγ								
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC ₅₀	Goldfish	13 mg/L 96 Hours	EC ₅₀	Water Flea	11.5 mg/L 48 Hours			
EC ₅₀	Green algae	>433 mg/L 72 Hours	EC ₅₀	Microtox	19.7 mg/L 48 Hours			
BIOACCUMULATIVE POTENTIAL								
Log Pow	Log P _{ow} 2.65 BCF 8.317							
		XYI	LENE					
		Тох	ICITY					
Type of Dose	Specie	Result	Type of Dose	Specie Result				
LC_{50}	Striped Bass	2 mg/L	LC_{50}	Water Flea	0.6 mg/L 48 Hours			
EC ₅₀	Green algae	72 mg/L 14 day	EC ₅₀	Microtox	8.4 μg/L 48 Hours			
Log Pow	Log P _{ow}		BCF		No Data			
Log I ow 3.15 Del No Data HEXANE								
			ICITY					
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC ₅₀	fathead minnow	2.5 mg/L 96 hours	EC ₅₀	Water Flea	3.87 mg/L 48 Hours			
EC ₅₀	Green algae	12.8 g/L 3 hours	EC ₅₀	Microtox	No Data			
	1		TIVE POTENTIAL					
Log P _{ow} 3.9 BCF No Data								
BENZENE								
		Тох	ICITY					
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC ₅₀	fathead minnow	15-32 mg/L 96 hours	EC ₅₀	Water Flea	10 mg/L 48 Hours			
EC ₅₀	Green algae	29 mg/L 72 Hours	EC ₅₀	Microtox	No Data			
			TIVE POTENTIAL					
Log P _{ow} 1.83 BCF 4.265								
1,2,4 Trimethyl Benzene								
Τοχιςιτγ								
Type of Dose	Specie	Result Type of Dose Specie		Result				
LC ₅₀	fathead minnow	7.72 mg/L 96 hours	EC ₅₀	Water Flea	6.14 mg/L 48 Hours			
EC ₅₀	Green algae	No Data	EC50	Microtox	No Data			
BIOACCUMULATIVE POTENTIAL								
Log Pow		3.63	BCF		120.2			



		CU	MENE					
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC ₅₀	Rainbow trout	4.8 mg/L 96 Hours	EC ₅₀	Water Flea	0.6 mg/L 48 Hours			
EC ₅₀	Green algae	2.6 mg/L 72 Hours	EC50	Microtox	0.89 mg/L 5 Min			
Log P _{ow} 3.55								
			HEXANE					
	~ .			~ .	D			
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC ₅₀	fathead minnow	32-93 mg/L 96 hours	EC ₅₀	Water Flea	0.6 mg/L 48 Hours			
EC ₅₀	Green algae	>500 mg/L 72 Hours	EC ₅₀	Microtox	85.5 mg/L 5 Min			
Log P _{ow}				3.	.44			
			Benzene					
					D 1			
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC_{50}	Sheepshead minnow	88 mg/L 96 hours	EC ₅₀	Water Flea	1.8-2.4 mg/L 48 Hours			
EC50	Green algae	4.6 mg/L 72 Hours	EC ₅₀	Microtox	9.68 mg/L 30 Min			
BIOACCUMULATIVE POTENTIAL								
Log P _{ow} 3.118 BCF No Data								
NAPHTHALENE								
Tours	C			C	D			
Type of Dose	Specie	Result 1-6.5 mg/L	Type of Dose	Specie	Result 2.16 mg/L			
LC ₅₀	fathead minnow	96 hours	EC ₅₀	Water Flea	48 Hours			
EC ₅₀	Green algae	Green algae 0.4 mg/L 96 Hours		Microtox	0.93 mg/L 30 Min			
I D			TIVE POTENTIAL		051			
Log P _{ow}		3.3	BCF		85.1			
			RENE					
т (р	C .			с ·				
Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LC ₅₀	fathead minnow	4 mg/L 96 hours	EC ₅₀	Water Flea	4.7 mg/L 48 Hours			
EC ₅₀	Green algae	0.72 mg/L 96 Hours	EC ₅₀	Microtox	5.4 mg/L 5 Min			
Log P _{ow} 2.95								
	SECTIO	N 13 \star DISPO	SAL CONSIDER	RATIONS				
Not Meant To Be	All Inclusive - Check	Local, State, And	Federal Laws And R	egulations				
Waste Codes: "	ct recovery for rec Ignitable hazardous	s waste" (D001),	unless proven of	1	1			
	disposal sites in co							
waste Disposal N	Method: Should not	be released into t	ne environment.					



Contaminated Packaging: D US EPA Waste Number: D		cordance wi	ith local regulations	3.			
SEC	CTION 14 回	TRANSPO	ORTATION INFO	RMATIC	N		
Not Meant To Be All Inclusive	e - Check Local	State, And F	Federal Laws And Re	gulations			
Element	U.S. D	TC	IMDG		IATA		
UN Number	UN 12	03 UN 1203			UN 1203		
UN Proper Shipping Name	Gasoline, Al	l Grades	Gasoline, All Gra	ades	Gasoline, All Grades		
Hazard Class(es)	3		3		3		
Placard/Label			1203				
Environmental Hazard	No		No		No		
Packing Group	II		II		II		
SECTION 15 D REGULATORY INFORMATION							
Agency		Listing Guidance only, consult specific regulations					
OSHA		All ingredients are listed as hazardous under 29 CFR 1910.1200					
CERCLA RQ's (40 CFR Part 102)		Benzene – 10 pounds Cumene - 5,000 pounds Naphthalene – 100 pounds Xylene - 100 pounds Toluene - 1,000 pounds		Styrene Ethyl Be	Cyclohexane - 1,000 pounds Styrene - 1,000 pounds Ethyl Benzene - 1,000 pounds Hexane – 5,000 pounds		
TSCA 8(a)		Naphthalene					
TSCA 8(b)		All components are listed or exempted					
SARA (40 CFR Part 355) TPC	· · · · · · · · · · · · · · · · · · ·	None of the ingredients are listed					
SARA 302/304/311/312 extrem hazardous substances	None of the ingredients are listed						
SARA 302/304 emergency planning and notification		None of the ingredients are listed					
SARA 302/304/311/312 hazardous chemicals		Gasoline; Xylene; Toluene; n-Hexane; Naphthalene; 1,2,4- Trimethylbenzene; Ethylbenzene; Benzene					
RCRA	Benzene - U019Hexane - U056Naphthalene - U165Xylene - U239Toluene - U220						
State Regulations: Massachusetts, New Jersey, and Pennsylvania New York - all listed except 1,2,4 Trimethyl Benzene		Xylene Toluene, Hexane, Benzene, Ethyl benzene ,1,2,4 Trimethyl Benzene, and Naphthalene					
SARA 311/312 SDS distributi inventory - hazard identificatio	Gasoline: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Xylene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Toluene: Fire hazard,						



EPA Form R Toxic Chemical Release	Hexane: Fi (chronic) h health haza Trimethylb Ethylbenze (acute) hea hazard, Imu hazard.	Immediate (acute) health hazard, Delayed (chronic) health hazard; n- Hexane: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Naphthalene: Fire hazard, Immediate(acute) health hazard, Delayed (chronic) health hazard; 1,2,4- Trimethylbenzene: Fire hazard, Delayed (chronic) health hazard; Ethylbenzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Benzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard. Toluene, Xylene, Hexane, 1,2,4 Trimethyl Benzene, Benzene, Ethyl						
Inventory		benzene and Naphthalene						
Clean Water Act (CWA) 307	Toluene, B	enzene, Ethylbenzene	e and Naphthalene					
Clean Water Act (CWA) 311	Xylene, To Naphthaler	luene, Benzene, Ethy ne	lbenzene and					
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs	s) Listed							
Clean Air Act Section 602 Class I Substances	Not Listed							
Clean Air Act Section 602 Class II Substances	Not Listed	Not Listed						
SEC	SECTION 16 % OTHER INFORMATION							
	NFPA LABEL	FLAMMABILITY PHYSICAL HAZARD PERSONAL PROTECTION	the actual conditions under which chemicals in the facility are used.					
	Acron	ym List						
°F=degrees Fahrenheit	°C=degrees Celsi		ACGIH= American Conference of Industrial Hygienists					
APR=Air Purifying Respirator	BCF= Bioconcent	tration Factor	BuAc=Butyl Acetate					
CANUTEC= Canadian Transport Emergency Centre	CAS=Chemical A	bstract Service	CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act					
CHEMTREC= Chemical Transportation Emergency Center	CNS=Central Ner	vous System	CWA=Clean Water Act					
DOT=Department of Transportation	EC50= Effective	Concentration Fifty	EPA=Environmental Protection Agency					
g/Kg=Grams per Kilogram	g/M ³ =Grams per	Cubic Meter	GHS=Global Harmonization System					
H ₂ O=Water	HAP=Hazardous	Air Pollutants	HMIS= Hazardous Materials Identification System					
IARC= International Agency for	IATA= Internatio	nal Air Transport	IMDG= International Maritime					
Research on Cancer	Association		Dangerous Goods					
LC ₅₀ =Lethal Concentration Fifty	LD ₅₀ =Lethal Dose	e Fifty	LEL=Lower Explosive Limit					
Log P _{ow} =Octanol/water partition coefficient	mg/Kg=Milligrams per Kilogram		mg/L=Milligrams per Liter					



mL/Kg=Milliliters per Kilogram	mm HG=millimeters of mercury	NFPA=National Fire Protection Association					
NIOSH= National Institute for Occupational Safety and Health	NTP=National Toxicology Program	OSHA=Occupational Safety and Health Administration					
PEL=Permissible Exposure Limit	ppm=Parts per Million	RCRA=Resource Conservation and Recovery Act					
RQ=Reportable Quantities	RTECS=Registry of Toxic Effects of Chemical Substances	SARA= Superfund Amendments and Reauthorization Act					
SDS=Safety Data Sheet	SETIQ= Emergency Transportation System for the Chemical Industry; Mexico	STEL=Short Term Exposure Limit					
TLV=Threshold Limit Value	TPQ=Threshold Planning Quantity	TSCA=Toxic Substance and Control Act					
TWA=Time Weighted Average	UEL=Upper Explosive Limit	VOC=Volatile Organic Compounds					
SDS REVISIONS: General update							
SDS CREATION DATE: 11/01/13 REVISION #2: 07/12/23							
DISCLAIMER The information in this SDS was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING ITS ACCURACY. Some conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY							
DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED							

WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. All product measurements such as flash point, *etc.* are considered approximate values. All data provided by Explorer Pipeline Company. This SDS was prepared and is to be used only for this product.

SDS DEVELOPER:

Cass Willaw

DATE: <u>07/12/23</u>

Cass Willard, CIH