

CAFET	V I	DATA SHEET			
	1 ♦	IDENTIFICATION			
Explorer Pipeline Company 6120 South Yale Ave., Suite 1100 Tulsa, OK 74136		FOR EMERGENCY SOURCE INFO ◆ (918) 493 - 5100	ORMATION CONTACT:		
Naphtha - Isomerized, Naphtha - Light, Naphtha - Heavy, Naphtha Mix, Natural Gasoline, Alkylate, Reformate, Iso-Octane, Raffinate, HUF/Toluene and Naphtha (No DRA) EPL Code: 1E and 10-19	PRODUCT USES: Feedstock				
SECTION 2 *	HAZ	ARDS IDENTIFICATION			
GH	S CLA	ASSIFICATIONS			
Flammable liquids – Category 2		Skin corrosion/irritation – Ca	ategory 2		
Carcinogenicity - Category 1A		Aspiration Hazard – Categor	y 1		
Specific Target Organ Toxicity (Repeat Exposure Category 1 (liver, kidneys, bladder, blood, bone marrow, nervous system)) -	Specific target organ toxicity (single exposure) – Category 3			
Hazardous to the Aquatic Environment – Chronic Hazard - Category 2		Eye Damage/Irritation – Category 2B			
May contain or release poisonous hydrogen sulfid	e gas				
GH		BEL ELEMENTS			
GHS Pictogra		ND STOCK	SIGNAL WORD		
W W W	MS	!	DANGER		
НА	ZARD	STATEMENTS	•		
Highly flammable liquid and vapor.		j	ved and enters airways.		
Harmful if inhaled. Causes skin irritation.		May cause irritation of respiratory system.			
May cause drowsiness or dizziness.		Causes eye irritation. Causes damage to liver, kidneys, blood and nervous system through prolonged or repeated exposure.			
May cause cancer.		Suspected of causi	ng genetic defects.		
Toxic to aquatic life.		May cause drows:	iness or dizziness.		
Precau		ARY STATEMENTS			
Voor ayyay from haat/anants/anan flomas/hatf		evention	locad		
Keep away from heat/sparks/open flames/hot surfaces. Ground/bond container and receiving equipment.		Moking. Keep container tightly cluster only non-sparking tools.	ioscu.		
Use explosion-proof electrical/ ventilating/ lighting/eq		, , ,			
Take precautionary measures against static discharge.		Keep out of reach of children			
Wear protective gloves/protective clothing/eye protect		•			
Wash hands and forearms thoroughly after handling.		Obtain special instructions before	use.		



Do not breathe mist/vapors/spray.	Use only outdoors or in well-ventilated area.					
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 a	Do not handle until all safety precautions have been read and understood.					
Response						

In case of fire: Use water spray, fog, dry chemical fire extinguishers or hand held 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 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.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor/physician if you feel unwell.

Get medical advice/attention if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.

Storage								
Store in a well-ventilated place	Keep cool	Store locked up	Keep container tightly closed					
Disposal								

Dispose of contents/container in accordance with local/regional/national/international regulations.

SUPPLIER INFORMATION

Explorer Pipeline Company 6120 South Yale Ave., Suite 1100 Tulsa, Oklahoma 74136

SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS

Ingredient	CAS Number	PERCENTAGE (%)						
Naphtha (mixture)	8030-30-6	0-95						
Toluene	108-88-3	0-95						
Alkylate	64741-64-6	0-95						
Iso-octane	26635-64-3	0-95						
Reformate	68514-79-4	0-95						
Raffinate	8030-30-6	0-95						
Pentane	109-66-0	0-30						
n-Hexane	110-54-3	0-25						
Benzene	71-43-2	0-10						
Ethyl Benzene	100-41-4	0-7						
1,2,4-Trimethylbenzene	95-63-6	0-5						
Hydrogen Sulfide	7783-06-4	<0.0001						

SECTION 4 + FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids, Get Medical Aid

SKIN: Quickly remove contaminated clothing and immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

INGESTION: Do not induce vomiting. Call a physician and/or transport to an emergency facility immediately.

INHALATION: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give cardiopulmonary resuscitation. If breathing is difficult, give medical oxygen.

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY

SECTION 5 # FIRE-FIGHTING MEASURES

SEE SECTION 9 FOR FLAMMABILITY PROPERTIES

HIGHLY 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.

Chemical Name

Naphtha Hydrocarbons

(Aromatic & Paraffinic)



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.					
	SECTION 7 💥 HANDLING AND STORAGE					
Prior to working with t	his product workers should be trained on its proper handling and storage					
PRECAUTIONS FOR SAFETY HANDLING	 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						
	EXPOSURE LIMITS					

OSHA PEL

TWA: 100 ppm

Based on Coal Tar Naphtha

NIOSH IDLH

Not Applicable

ACGIH TLV (2019)

Not Applicable



n-Pentane	TWA: 600 ppm	TWA: 1,000	120 ppm (REL) 1,500 ppm	
Hexane TWA: 50 ppm Skin		TWA: 500	1,100 ppm	
Octane (All isomers)	TWA: 300 ppm	TWA: 500 ppm	1,000 ppm	
Toluene TWA: 20 ppm		TWA: 200 ppm	500 ppm	
Benzene	TWA: 0.5 ppm STEL: 2.5 ppm <i>Skin</i>	TWA: 1 ppm STEL: 5	500 ppm	
Ethyl benzene	TWA: 20 ppm	TWA: 100 ppm	800 ppm	
1,2,4 Trimethyl benzene	TWA: 25 ppm	Not Applicable	Not Applicable	
Naphthalene	TWA: 10 ppm STEL: 15 ppm <i>Skin</i>	TWA: 10 ppm	250 ppm	
Hydrogen Sulfide	TWA: 1 ppm STEL: 5 ppm	Ceiling: 20 ppm Peak: 50 ppm	100 ppm	

ENGINEERING CONTROLS: Use adequate ventilation to keep vapor concentrations of this product below occupational exposure limits and flammability limits, particularly in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

- ◆ EYES: Eye protection (ANSI Z87.1 approved) should be worn whenever there is a likelihood of misting or splashing/spraying liquid. Suitable eyewash station should be available. Contact lenses must not be worn.
- ♦ SKIN/BODY: Chemical protective clothing is recommended based on a thorough PPE hazard assessment. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for specific information.
- **★ HAND PROTECTION:** Gloves constructed of nitrile, neoprene, or PVC are recommended. Consult manufacturer specifications for specific information.
- ★ 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): 23 to 116 °F/-5 to 47 °C PERCENT VOLATILE BY VOLUME: 100%								
SPECIFIC GRAVITY (H ₂ O = 1): 0.716 - 0.78 VISCOSITY UNITS, TEMP: No Data								
EVAPORATION RATE (BuAc = 1): Unavailable VAPOR DENSITY (AIR =1): >1.0								
VAPOR PRESSURE AT 38 °C: 62 - 961 mm Hg	SOLUBILITY IN WATER: Negligible							
APPEARANCE AND ODOR: Clear liquid, petroleum odor.								
FLASH POINT: (Method Used) <100 °F/<38 °C	FLAMMABLE LIMITS:	% LEL: 1 % vol Literature Approx. % UEL: 7 % vol Literature Approx.						
AUTOIGNITION TEMPERATURE: No data	VOC CONTENT: 100%							
OPATION AS A STABILITY AND DEACTIVITY								

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:

SECTION 11 & TOXICOLOGICAL INFORMATION

N-PENTANE

Inhalation of very high concentrations of pentane (>10% in air) may cause narcosis and irritation of the mucous membranes (eye, noise, and throat). In humans, inhalation of 5000 ppm for 10 minutes failed to cause these symptoms. There is no report in the literature indicating any adverse effects from pentane other than narcosis and irritation.

	TOXICITY										
Type of Dose	Specie	Result	Type of Dose	Specie	Result	Type of Dose	Specie	Result			
LD _{50(oral)}	Rat	446 g/kg	LD _{50(dermal)}	Rabbit	No Data	LC _{50(inh)}	Rat (4 hours)	364 g/M^3			
Consifie and	Smoothis areas toxicity single avecause. No date										

Specific organ toxicity, single exposure: No data available

Specific organ toxicity, repeated exposure: Liver damage

CARCINOGENICITY

IARCNot ListedNTPNot Listed

California (Prop 65):
Not Listed as carcinogen

NIOSH: Not Listed

ACGIH: Not Listed

OSHA: 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: Skin-rabbit: skin irritation	Serious eye damage, irritation-rabbit: No data available					
Synergistic effects: No data available	Aspiration hazard: No data available					
PTECS #, P70450000						

RTECS #: RZ9450000

OCTANE

Octane can affect the body if it is inhaled, comes in contact with the skin or eyes or is swallowed. Octane vapor is a mild narcotic and mucous membrane irritant. No chronic systemic effects have been reported in humans.

	TOXICITY									
Type of Dose	Specie	Result	Type of Dose	Specie	Result	Type of Dose	Specie	Result		
LD _{50(oral)}	Mouse	No Data	LD _{50(dermal)}	Rabbit	No Data	LC _{50(inh)}	Rat (4 hours)	118 g/M^3		

Specific organ toxicity, single exposure: May cause drowsiness

Specific organ toxicity, repeated exposure: No data available

CARCINOGENICITY

IARC Not Listed
NTP Not Listed
California (Prop 65): Not Not Listed

Listed NIOSH: Not Listed ACGIH: Not Listed OSHA: Not Listed

MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

Respiratory or Skin sensitization: No data available
Reproductive toxicity: No data available
Terratogenicity: No data available
Terratogenicity: No data available



Skin Corrosion/irritation: Testing showed no irritation Serious eye damage, irritation-rabbit: mild eye irritation									
Synergistic e			110 11111111				l: No data ava		<i></i>
RTECS #: R									
RAFFINATE									
				owed. I spray	Aspir mists	ation may car are narcotic			ing to eyes, respiratory e, fatigue, dizziness and
			1 1	T	OXIC	ITY			
Type of Dose	Specie	Result	Type of Dose	Spe	cie	Result	Type of Dose	Specie	Result
LD _{50(oral)}	Rat	>5,000 mg/kg	LD _{50(de}	Rab	bit	>2,000 mg/kg	LC _{50(inh)}	Rat (4 hours)	$>7.6 \text{ g/M}^3$
Specific orga available	n toxicity, sii	ngle exposure:	No data		Spec	ific organ tox	cicity, repeated	d exposure:	No data available
	_					ENICITY			
IARC			Gr	oup 2B	: Poss		genic to huma	ns	
NTP	D (#))	. T				Not Listed			
California (l Li	Prop 65): No	NIOSI	I: Not List				I: Not Listed		OSHA: Not Listed
	71.	MUTAGENIC		TOGEN					
		ization: No data					nicity: No dat		
•		t expected to ca May cause ski			1 era	togenicity: No	o data availab	le	
prolonged or	repeated co	ntact. Liquid n mounts if large	nay be abs	orbed		ous eye damaş erate to sever	•	Contact wi	ith eyes may cause
Synergistic ex From Literatu	ffects: No da	ta available			Aspi	ration hazard	: May be fatal	if aspirate	d and enters airway
Tiom Littlati	iic			I.	HEXA	NE			
drowsiness a	nd dizziness.		sure may	cause li utagen	ver d	amage. Adve			on of vapors may cause have been reported in
Type of			Type of				Type of		
Dose	Specie	Result	Dose	Spe	ecie	Result	Dose	Specie	Result
LD _{50(oral)}	Rat	15.8 g/kg	LD _{50(dermal)}	Rab		No Data	LC _{50(inh)}	Rat (4 hours	/
Specific orga drowsiness or		ngle exposure:	May cause		to or		peated or prol		: may cause damage osure. May cause
Testicular tur	mors shown i	n rats		CARC	INOGI	ENICITY			
IARC	11013 3110 WII I	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Not Listed			
NTP						Not Listed			
California (Prop 65): No carcinogen	ot NIOSH	I: Not List	ted			I: Not Listed		OSHA: Not Listed
113000 005		MUTAGENIC	ITY, TERA	TOGEN	ICITY	AND REPRO	DUCTIVE EF	FECTS	
Respiratory of	or Skin sensiti	zation: No data					nicity: No da		;
							-		

fertility in humans.

Reproductive toxicity: overexposure may cause

reproductive disorders based on lab animals. May damage

adverse reproductive and fetal effects in laboratory animals.



Teratogenicity: No data available

Terunty in numa	шѕ.										
Skin Corrosion/	irritation: 1	No data avail:	able		Serious eye damage, irritation -rabbit: mild eye irritation						
Synergistic effects: No data available						ration hazard:	May	be fatal	if swallow	ed ar	nd enters airway.
RTECS #: MN9275000											
				7	OLUE	NE					
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.											
the skin, proton	ged and rej	beated expost	ire can caus		OXICI						
Type of Dose	Specie	Result	Type of Dose		ecie	Result	-	pe of Dose	Specie		Result
LD _{50(oral)}	Rat	636 mg/kg	LD _{50(dermal}) Rai	bbit	14.1 mL/kg	LO	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									data available		
	-					NICITY					
IARC	Inad	equate evider animals	nce in	Ina	dequate evidence in humans Group 3: not classifiable as a human carcinogen						
NTP						Not Listed					
California (l Listed as ca			SH: Not Li			ACGIH: A4-Not Classifiable As Human Carcinogen OSHA: Not Listed					
		MUTAGEN	ICITY, TER	ATOGEN		AND REPROI					
Respiratory or S	Skin sensiti	zation: No da	ata availabl	e		n cell mutager Adamage	nicity	: Genoto	oxicity in vi	itro-r	at: Liver and
Reproductive to rats	xicity: Hav	ve been show	n in male/f	emale		togenicity: De ected human				xicit	y, stunted fetus.
Skin Corrosion/ hours	irritation: S	Skin-rabbit: i	rritation ove	er 24	Serio	ous eye damag	ge, irr	itation -1	rabbit: No o	data a	available
Synergistic effe	cts: No dat	a available			Aspi	ration hazard:	No c	lata avai	lable		
RTECS #: XS52	250000			-				-			
				В	ENZE	NE					
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.											
blood cell abno	rmalities.	Chronic exp	osure to b	enzene l	nas bee	en associated	with	an incr	eased incid	lence	anemia and other of leukemia and stance has caused



					Toxici	tv			
Type of	Specie	Result	Type of		ecie	Result	Type of	Specie	Result
Dose	1		Dose	1			Dose	•	
LD _{50(oral)}	Rat	930 mg/kg	LD _{50(dermal)}	Ra	bbit	9.4 ml/kg	LC _{50(inh)}	Mouse (4 hours)	
Specific organ	Specific organ toxicity, single exposure: May cause								may cause damage to
drowsiness or o		8 r	·				ed or prolong	ed exposure	. May cause nervous
	system damage. CARCINOGENICITY								
							Gt	oun 1· class	ifiable as a human
IARC	Sufficien	nt evidence in	n animals	Suffici	ent evi	dence in hum	ans	_	cinogen
NTP						Carcinogen			
California	(Prop 65):	NIC	SH: Poten	tial	A	ACGIH: A1	- Confirmed	human	OSHA: Select
Listed as c	arcinogen		tional Carci				cinogen		Carcinogen
		MUTAGEN	ICITY, TER	ATOGE		AND REPROI			
	a1 · · · ·								mutagenic effects (in
Respiratory or	Skin sensiti	zation: No da	ata available	;). Genotoxici age shown in:	•	(in vivo) ly	mphocyte. Genotoxic
					Tera	togenicity: Ra		nclude effec	ets include stunted
Reproductive t						and death			
including embi	yonic and f	etal effects in	ncluding dea	ıth					tological changes and
G1 : G :	<i>'</i> : ·, , ·	'11 1 1	• •, ,•			ormalities to b			
Skin Corrosion						ous eye damag			
Synergistic effective RTECS #: CY		e to bone ma	rrow		Aspi	ration nazard:	May be lata	i ii swanow	ed and enters airway.
KIECS #. CI	140000			ETII	vi De	NZENE			
Exposure to et	hvl henzene	may cause i	rritation of t				anec It max	also cause	transient eye irritation
									ation. Breathing lower
levels has resul							dia inout	ina eye mm	ation. Breathing lower
					OXIC				
Type of	Specie	Result	Type of	Sn	ecie	Result	Type of	Specie	Result
Dose	Specie	Result	Dose	Бр			Dose	_	Kesuit
LD _{50(oral)}	Rat	3.5 g/kg	LD _{50(dermal)}	Ra	bbit	17.8 mL/kg	LC _{50(inh)}	Rat (4 hours)	55 g/M^3
Specific organ available	toxicity, sin	gle exposure	: No data		Spec	rific organ tox	icity, repeate	d exposure:	No data available
a variable	CARCINOGENICITY								
IARC	Sufficien	nt evidence in	n animals			vidence in hun	nans Gro	•	ibly carcinogenic to
NTP						Not Listed		110	amans
California ((Prop 65):	NIOSI	H: Occupat	ional	-	ACGIH:A4-N	lot Classifiah	le As	OSHA: Possible
	California (Prop 65): NIOSH: Occupational Carcinogen				Human Carcinogen Select Carcinogen				
		•		ATOGE	NICITY	AND REPROI		FECTS	J
Respiratory or	Skin sensiti					n cell mutagei			
Reproductive t	oxicity: No	data availabl	e			togenicity: No			
Skin Corrosion			able		Serious eye damage, irritation-rabbit: No data available				
Synergistic eff	ects: No dat	a available			Aspi	ration hazard:	No data ava	ilable	
RTECS #: DA	.0700000								



Acute inhalation effects respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May cause drowsiness, unconsciousness, and central nervous system depression. Vapors may cause dizziness or suffocation. Prolonged or repeated skin contact may cause dermatitis. May cause anemia and other blood cell abnormalities. Prolonged exposure may produce a narcotic effect. Prolonged or repeated exposure may cause nausea, dizziness, and headache. Toxicity Type of Specie Result Type of Specie Result Type of Specie Result

ID D. 50 / ID D. 11: N. D. IG Rat 10	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	g/M^3

Specific organ toxicity, single exposure: No data available

Specific organ toxicity, repeated exposure: No data available

CARCINOGENICITY

IARCNot ListedNTPNot Listed

California (Prop 65): Not Listed NIOSH: Not Listed ACGIH: Not Listed OSHA: Not Listed

MUTAGENICITY, TERATOGENICITY AND REPRODUCTIVE EFFECTS

Respiratory or Skin sensitization: No data available	Germ cell mutagenicity: test performed on rats showed negative results		
Reproductive toxicity: No data available	Teratogenicity: No data available		
Skin Corrosion/irritation: No data available	Serious eye damage, irritation -rabbit: mild eye irritation		
Synergistic effects: No data available	Aspiration hazard: May be fatal if swallowed and enters airway.		

RTECS #: DC3325000

NAPHTHALENE

Inhalation may cause respiratory tract irritation. Hemolytic anemia (destruction of red blood cells) is the primary health concern for humans exposed to naphthalene for either short or long periods of time. Other effects may include nausea, profuse perspiration, vomiting, kidney damage and liver damage. Chronic exposure may cause lung damage.

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Type of Dose	Specie	Result	Type of Dose	Specie	Result	Type of Dose	Specie	Result
LD _{50(oral)}	Rat	490 mg/kg	LD _{50(dermal)}	Rabbit	>20 g/kg	LC _{50(inh)}	Rat (1 hour)	No Data

Specific organ toxicity, single exposure: No data available

Specific organ toxicity, repeated exposure: No data available

CARCINOGENICITY

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 carcinogen

NIOSH: Not Listed

ACGIH: Not Listed

OSHA: 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
Synergistic effects: No data available	Aspiration hazard: No data available
	·

RTECS #: QJ0525000



				HyDI	ROGEN SU	II.FIDE			
Hydrogen sulfid	e is a toxic	flammabl	e color				r" smell Inha	lation of high	concentrations can
	Hydrogen sulfide is a toxic, flammable colorless gas with a distinct "rotten-egg" smell. Inhalation of high concentrations can cause severe eye, nose and mucous membrane damage, dizziness, headache, and nausea. Exposure to higher concentrations								
	can result in unconsciousness, coma, and death. Chronic exposure can damage memory, nerve tissue, facial muscles, and eyes.								
	Toxicity								
T	G	D1	l4	Type of			Type of	C	D14
Type of Dose	Specie Result Specie Result Dose Specie Result Dose Result								
LD _{50(oral)}	Dat	2 200	x/lz 0	I David in	Dobbit	No Data	I Coan to	Mouse	624 nnm
Solution									
Specific organ to									
severe eye, nose					r Speci	fic organ tox	cicity, repeated	d exposure:	Not Classified
concentrations r	nay cause c	hemical as	phyxia						
T + D G	1			CAR	CINOGEN				
IARC						Not Listed			
NTP	(F) N		NIO	OTT NI . T '		Not Listed	37 . 7	0.0	TTA STATE 1
California (Pr	op 65): No			SH: Not Lis			Not Listed		HA: Not Listed
D	1_'						OUCTIVE EFFI		
Respiratory or S			aata av	allable			nicity: Not Cl	assified	
Reproductive to			-: ::4	4:			ot Classified.		ii4-4i
Skin Corrosion/			kin irrii	ation					s eye irritation
Synergistic effective RTECS #: MX1		1			Aspir	ation nazaru	. May be latai	11 Swallowed	d and enters airway.
RIECS #: WIAI	223000	050	TION	140 # 50	201.001	041 14150			
		SEC	HON	12 巻 EC			PRMATION		
					OCTANE				
					TOXICIT	1		Ĺ	
Type of Dose		pecie		Result	Туре	of Dose	Specie		Result
LC_{50}		e Fish	0	.42 mg/L		EC_{50}	Water Fle	a	0.38 mg/L
	96	hours				50			48 Hours
EC_{50}	Gree	en algae		5.8 g/L 72 hours]	EC ₅₀		-	No Data
					HILATINE	POTENTIAI			
Log Pow				5.15	BCF	I OLENIJAI	<u> </u>		No Data
K _{oc} (Soil/water	Partition Co	efficient)		3.13	BCI			No Dat	
K _{oc} (Son/water)	artition	cificient)		Mo	BILITY IN	SOIL		No Dat	a
K _{oc} (Soil/water	Partition Co	efficient)		1110	DILITI IIV	SOIL		1	No Data
Troc (Son water)	uninon ee	(CITICICITE)		1	Q A EEINA'	TE		1	10 Butu
<i>RAFFINATE</i> TOXICITY									
Type of Dose	S	pecie		Result		of Dose	Specie		Result
LC ₅₀		Fish		No Data		EC ₅₀	Daphnia		No Data
EC ₅₀				No Data		EC ₅₀		-	No Data
2 2 30	I		-	PERSISTENC			ΤΥ	<u> </u>	
No Data									
				BIOACCUM	IULATIVE	POTENTIAI			
Log Pow				No D					No Data
	MOBILITY IN SOIL								
K _{oc} (Soil/water	Partition Co	efficient)						No Dat	a
				1	ı-PENTA	VE			
					TOXICIT				
TOMETT									



Type of Dose	Specie	Result	Type of Dose	Specie	Result	
LC ₅₀	Rainbow trout	9.87 g/L 96 Hours	EC ₅₀	Water Flea	9.7 g/L 48 Hours	
EC ₅₀	Green algae	No Data	EC ₅₀	Microtox	No Data	
Log Pow	5	3.39	BCF	I	1.9-2.35	
_		Н	IEXANE			
		Te	OXICITY			
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	
			LATIVE POTENTIAL	1		
Log Pow		3.9	BCF		No Data	
			OLUENE			
	1		OXICITY			
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	8.317					
	BENZENE					
	T T		OXICITY			
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	
			LATIVE POTENTIAL	ı		
Log Pow		1.83	BCF		4.265	
			L BENZENE			
T CD			OXICITY	<u> </u>	D 1:	
Type of Dose	Specie	Result	Type of Dose	Specie	Result 1.8-2.4 mg/L	
LC ₅₀	Sheepshead minnow	88 mg/L 96 hours	EC ₅₀	Water Flea	48 Hours	
EC ₅₀	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	
	1,2,4 TRIMETHYL BENZENE					
T CD			OXICITY	g · T	D 1	
Type of Dose	Specie	Result 7.72 mg/L	Type of Dose	Specie	Result	
LC ₅₀	fathead minnow	96 hours	EC ₅₀	Water Flea	6.14 mg/L 48 Hours	
EC ₅₀	Green algae	No Data	EC ₅₀	Microtox	No Data	
			LATIVE POTENTIAL	1		
Log Pow		3.63	BCF		120.2	

		NAP	PHTHALENE				
	TOXICITY						
Type of Dose	Specie	Result	Result				
LC ₅₀	fathead minnow	1-6.5 mg/L 96 hours	Type of Dose EC ₅₀	Specie Water Flea	2.16 mg/L 48 Hours		
EC ₅₀	Green algae	0.4 mg/L 96 Hours	EC ₅₀	Microtox	0.93 mg/L 30 Min		
	BIOACCUMULATIVE POTENTIAL						
Log Pow	85.1						
		HYDRO	GEN SULFIDE				
		T	OXICITY				
Type of Dose	Specie	Result	Type of Dose	Specie	Result		
LC ₅₀	Bluegill	0.0448 mg/L 96 hours	EC ₅₀	Water Flea	No Data		
LC ₅₀	Bluegill	0.016 mg/L 96 hours	EC ₅₀	Microtox	No Data		
	BIOACCUMULATIVE POTENTIAL						
Log Pow	Log P _{ow} No Data BCF						
SECTION 13 * DISPOSAL CONSIDERATIONS							

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations

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Maximize product recovery for reclaim and reuse. Implement waste minimization principles. EPA U.S. Waste Codes: "Ignitable hazardous waste" (D001), unless proven otherwise. Use approved treatment, transporters, and disposal sites in compliance with all laws.

Waste Disposal Method: Should not be released into the environment.

Contaminated Packaging: Dispose of in accordance with local, state, and federal regulations.

US EPA Waste Number: D001, D018

Packing Group

SECTION 14 TRANSPORTATION INFORMATION

Not Meant To Be All Inclusive - Check Local, State, And Federal Laws And Regulations					
Element	U.S. DOT	IMDG	IATA		
UN Number	UN 1268	UN 1268	UN 1268		
UN Proper Shipping Name	Petroleum Distillates, N.O.S.	Petroleum Distillates, N.O.S.	Petroleum Distillates, N.O.S.		
Hazard Class	3	3	3		
Placard/Label		1268			
Environmental Hazard	Yes	Yes	Yes		

Π

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SECTION	SECTION 15) REGULATORY INFORMATION					
Agonov		Listing				
Agency	Guidance only, consult specific regulations					
OSHA	All ingredients are listed as hazard	dous under 29 CFR 1910.1200				
	n-Nonane	Benzene – 10 pounds				
CEDCLA DOZ	Cumene - 5,000 pounds	Cyclohexane - 1,000 pounds				
CERCLA RQ's	Naphtha – 100 pounds	Styrene - 1,000 pounds				
(40 CFR Part 102)	Xylene - 100 pounds	Ethyl Benzene - 1,000 pounds				
	Toluene - 1,000 pounds	Hexane – 5,000 pounds				
TSCA 8(a)	None of the ingredients are listed	•				
TSCA 8(b)	All components are listed or exen	npted				
SARA (40 CFR Part 355) TPQ's	None of the ingredients are listed	•				
SARA 302/304/311/312 extremely	Xylene, Toluene, n-Hexane, Napl	nthalene, 1,2,4-Trimethylbenzene,				
hazardous substances	Ethylbenzene, Benzene, nonane, l					
SARA 302/304 emergency planning and notification	None of the ingredients are listed					
SARA 302/304/311/312 hazardous	Xylene; Toluene; n-Hexane; Napl	ntha; 1,2,4-Trimethylbenzene; Ethyl				
chemicals	Benzene; Benzene					
RCRA	Benzene - U019	Hexane - U056				
KCKA	Xylene - U239	Toluene - U220				
State Regulations: Massachusetts, New Jersey, and Pennsylvania New York - all listed except 1,2,4 Trimethyl Benzene	nsylvania Toluene, Hexane, Benzene, Ethyl benzene, 1,2,4 Trimethyl Ben					
SARA 311/312 SDS distribution - chemical inventory - hazard identification	Diesel: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Xylene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Toluene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; n-Hexane: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Naphtha: 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, Octane (All Isomers): Fire hazard					
EPA Form R Toxic Chemical Release Inventory	and Naphtha	rimethyl Benzene, Benzene, Ethyl benzene				
Clean Water Act (CWA) 307	Toluene, Benzene, Ethylbenzene	•				
Clean Water Act (CWA) 311	Xylene, Toluene, Benzene, Ethyll	penzene and Naphtha				
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Listed					
Clean Air Act Section 602 Class I Substances	Not Listed					
Clean Air Act Section 602 Class II Substances	Not Listed					



SECTION 16 # OTHER INFORMATION



NFPA LABEL



HMIS III LABEL

Personal Protection Index
NPCA recommends that PPE codes be determined by the employer, who is familiar with the actual conditions under which chemicals in the facility are used.

v	HARS® HARS® HARS® HARS® HARS® HARS®	* IMIS*				
Acronym List						
°F=degrees Fahrenheit	°C=degrees Celsius	ACGIH= American Conference of Industrial Hygienists				
APR=Air Purifying Respirator	BCF= Bioconcentration Factor	BuAc=Butyl Acetate				
CANUTEC= Canadian Transport Emergency Centre	CAS=Chemical Abstract Service	CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act				
CHEMTREC= Chemical Transportation Emergency Center	CNS=Central Nervous System	CWA=Clean Water Act				
DOT=Department of Transportation	EC50= Effective Concentration Fifty	EPA=Environmental Protection Agency				
g/Kg=Grams per Kilogram	g/M³=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 Research on Cancer	IATA= International Air Transport Association	IMDG= International Maritime Dangerous Goods				
LC ₅₀ =Lethal Concentration Fifty	LD ₅₀ =Lethal Dose 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				
DO Dogodalia Orașidă	RTECS=Registry of Toxic Effects of	SARA= Superfund Amendments and				
RQ=Reportable Quantities	Chemical Substances	Reauthorization Act				
SDS=Safety Data Sheet	SETIQ= Emergency Transportation System for the Chemical Industry	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 DEVISIONS: Undate in Section 0 flammable limits						

SDS REVISIONS: Update in Section 9 flammable limits

SDS CREATION DATE: 05/28/15 **REVISION #2:** 06/05/20

DISCLAIMER

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SDS DEVELOPER:

Cass Willard, CIH

DATE: <u>06/05/20</u>