Store in a well-ventilated place Keep cool

Keep container tightly closed

	SAFELLD	ATA SHEE	, 1		
	SECTION 1 ◆	IDENTIFICATION	ON		
Magellan Midstream Partners One Williams Center Tulsa, OK 74172	For Emergency So > 3E Contact: (8	877) 852-0015 or	+1 (760) 602-8700		
GHS PRODUCT IDENTIFIER: Jet Fuel A, Aviation Fuel	CHEMICAL FAMI Hydrocarbon	LY: Petroleum		S: Used primarily as a internal combustion	
SECT	TION 2 * HAZ	ARDS IDENTIFI	CATION		
	GHS CLA	SSIFICATIONS			
Aspiration Hazard - Category 1		Skin Corrosion/In	ritation - Categ	gory 2	
Specific Target Organ Toxicity				Liquid - Category 3	
Hazardous to the	ne Aquatic Enviror		azard - Categor	ry 2	
	GHS LAB	el Elements			
	Jet	Fuel A			
(GHS PICTOGRAMS			SIGNAL WORD	
	> <		<u>(!)</u>	DANGER	
Causes skin irritation		STATEMENTS Management	-1 :611 1 .	1 4	
Flammable liquid and		May be fatal if swallowed and enters airways. May cause irritation of respiratory system.			
Toxic to aquatic life with long	•	May cause drowsiness or dizziness.			
Toxic to aquatic fire with long		ARY STATEMENTS			
		vention			
Keep away from heat/sparks/open fla			ontainer tightly cl	osed	
Ground/bond container and receiving		Use only non-spar		0500.	
Use explosion-proof electrical/ ventile					
Take precautionary measures against		Keep out of reach	of children.		
Wear protective gloves/protective clo					
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 usin	<u> </u>				
Do not handle until all safety precauti					
		sponse			
In case of fire: Use water spray, fog, o		inguishers or hand l	neld fire extingui	sher.	
F exposed or concerned: Get medica		· D / T 1	CC: 1: 1	11	
F ON SKIN (or hair): Wash with pl	· 1		orr immediately a	iii contaminated clothi	
and wash before reuse. If skin irritati IF INHALED: Remove victim to fres.			urtable for breeth	ing Call a paigan cant	
center or doctor/physician if you feel		im a position comic	ntable for ofeath	mg. Can a poison cont	
Get medical advice/attention if you fee					
IF SWALLOWED: Immediately call		R or doctor/physicia	n. Do not induce	vomiting.	
		orage		<u>U</u>	
Ctone in a small mantilated alone Var	1	0 1 1 1	1		

Store locked up



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Disposal						
Dispose of contents/container in accordance with local/regional/national/international regulations.						
SUPPLIER INFORMATION						
Magellan Midstream Partners One Williams Center Tulsa, OK 74172						
SECTION 3 ▼ COI	MPOSITION/INFORMATION	OF INGREDIENTS				
INGREDIENT CAS NUMBER PERCENTAGE (%)						
Kerosene, Petroleum Hydrodesulfuriz	zed 64742-81-0	0-100				
Kerosene, Petroleum 8008-20-6 0-100						
OFOTION A L FIRST AIR MEAGURES						

SECTION 4 + FIRST AID MEASURES

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

SKIN: Quickly remove contaminated clothing and immediately wash skin with plenty of soap and water for at least 15 minutes. 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

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 # EXPOSURE CONTROLS / PERSONAL PROTECTION EXPOSURE LIMITS

EM OSCILE EMITS								
Chemical Name	ACGIH TLV (2013)	OSHA PEL	NIOSH IDLH					
Kerosene, Petroleum Hydrodesulfurized Kerosene, Petroleum	TWA: 200 mg/M ³ Skin Notation	Not Applicable	Not Applicable					
Naphthalene	TWA: 10 ppm STEL: 15 ppm	TWA: 10 ppm	250 ppm					

ENGINEERING MEASURES: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits and flammability limits, particularly in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Respiratory

Use a properly fitted, air-purifying or air-supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for non-routine and emergency use.

Personal Protective Equipment: Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Personal Protective Equipment: Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, or mists. Keep away from eyes. Eye contact can be avoided by wearing safety glasses or chemical splash goggles.



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Personal Protective Equipment: Skin and Body

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Keep away from skin. Skin contact can be minimized by wearing protective gloves such as neoprene, nitrile-butadiene rubber, etc. and, where necessary, impervious clothing and boots. Leather goods contaminated with this product should be discarded. A source of clean water should be available in the work area for flushing eyes and skin. Flame Retardant Clothing is recommended.

SECTION 9 & PHYSICAL AND CHEMICAL PROPERTIES						
BOILING POINT (760 MM HG): 310-702 °F/154-372 °C	PERCENT VOLATILE BY VOLUME: Slight - 100%					
SPECIFIC GRAVITY (H₂O = 1): $0.775 - 0.840$	VISCOSITY UNITS, TEMP: 1.5-2.5 cSt @ 37.7 °C					
EVAPORATION RATE (BuAc = 1): <1	VAPOR DENSITY (AIR =1): >4.5					
VAPOR PRESSURE AT 25°C: <2 mm Hg	SOLUBILITY IN WATER: Negligible					

APPEARANCE AND ODOR: Clear to straw colored liquid; petroleum distillates/kerosene odor.

FLASH POINT: (Method Used) 100-150 °F/38-66 °C

FLAMMABLE LIMITS:

LEL: 0.7%
UEL: 5.0%

AUTOIGNITION TEMPERATURE: 410 °F / 210 °C **VOC CONTENT:** 100%

SECTION 10 # 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

PETROLEUM DISTILLATES

While significant vapor concentrations are not likely, high concentrations can cause respiratory irritation, headache, drowsiness, dizziness, incoordination, disorientation and fatigue. Ingestion can cause irritation of the digestive tract, nausea, diarrhea, and vomiting. Irritating to skin. Repeated or prolonged contact can cause dryness, cracking and dermatitis. Liquid may be absorbed through skin in hazardous amounts if large areas of the skin are repeatedly exposed.

Toxicity								
Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD _{50(oral)}	Rat	5,000 mg/kg	LD _{50(dermal)}	Rabbit	>2,001 mL/kg	LC _{50(inh)}	Rat (4 hours)	>5 g/M ³

Specific organ toxicity, single exposure: No data available

Specific organ toxicity, repeated exposure: No data available

CARCINOGENICITY

NUMB		37 . 7 1	<u> </u>
IARC	Inadequate evidence in animals	Inadequate evidence in humans	Group 3: not classifiable as a human carcinogen

NTP Not Listed

California (Prop 65): Not Listed

NIOSH: Not Listed

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans

OSHA: Not Listed

		M	[UTAGENICI	ry, Terat	OGENIC	ITY AN	D REPRODUC	CTIVE	EFFEC	TS		
Respiratory of	r Skin					Germ cell mutagenicity: Not expected to cause effects				se effects		
Reproductive						Teratogenicity: No data available						
Skin Corrosio							us eye damag				nuse se	erious eve
	repeated exposure caused dryness and cracking					irrita	tion	, -		•		,
Synergistic e	ffects:	No dat	a available			Aspı airwa	ration hazard: ay	May	be fatal	if aspi	rated a	and enters
RTECS #: O.	A5500	000, O	A5504000 aı	nd SE7548	500							
					Napht	HALE	NE .					
concern for h	iumans	expos	ed to naphth	alene for e	ither show d liver da	rt or lo image.	,	time.	Other e	effects	may ir	orimary health nclude nausea, nage.
T Of		ı	1	т о	1	ICITY		т	OC			
Type Of Dose	Spe	ecie	Result	Type Of Dose	Spe	ecie	Result		e Of ose	Spe	cie	Result
LD _{50(oral)}	R	at	490 mg/kg	LD _{50(derma}	l) Ral	obit	>20 g/kg	LC:	50(inh)	Ra (1 ho		No Data
Specific orga	n toxic	city, sir		e: No data	1	Spec avail	ific organ tox able	icity, r	epeated	dexpos	sure: 1	No data
				(CARCING	GENIC	CITY					
IARC	Sı	ufficier	nt evidence ir	n animals	Inadequ	iate ev	idence in hun	nans	Group		ossibly huma	carcinogenic
NTP				Listed as re	easonably	antic	ipated to be a	humai	n carcin			
California Listed as	` -	. ,		SH: Not L	•		ACGIH					OSHA: Not Listed
		_	[UTAGENICI	ΓΥ, TERAT	OGENIC	ITY AN	D REPRODUC	CTIVE	EFFEC	TS	I.	
Respiratory of	r Skin	sensiti	zation: No da	ata availab	le	Gern	n cell mutager	nicity:	No dat	a avail	able	
Reproductive	toxici	ity: No	data availabl	le		Tera	togenicity: No	data	availab	le		
Skin Corrosio	on/irrit	ation:	Testing show	ed no irrita	ition	Serio	ous eye damag	ge, irrit	tation-r	abbit: 1	nild ey	ye irritation
Synergistic e	ffects:	No dat	a available			Aspi	ration hazard:	No da	ata avai	lable		
RTECS #: Q	J0525	000										
			SECTIO	N 12 *	ECOL	OGIC	AL INFOR	MAT	ION			
				PET	ROLEUM	DIST	ILLATES					
		.		<u> </u>		ICITY		1			-	
Type Of D	ose		Specie	Res		Ty	oe Of Dose	se Specie		;		Result
LC_{50}			Fish	387 mg hou	•		EC ₅₀					No Data
EC_{50}				No I			EC ₅₀			No Data		
						D DEG	RADABILITY					
Considered in	nheren	tly bio	degradable in									
				BIOAC			OTENTIAL					
Log Pow					3.3-6	BCF						No Data
V (0 '1/ ·	D	:4:- 0			Mobili	TY IN S	OIL			ЪT	D-4	
K _{oc} (Soil/wat	er Part	ition C	oetticient)							No	Data	
					NAPHT		NE					
T. O.D.		l .	<u> </u>			ICITY	OCD	T	<u> </u>	1		D 1:
Type Of D	ose		Specie	Res		I y	oe Of Dose	**	Specie			Result
LC ₅₀		tathe	ad minnow	1-6.5 mg/L			EC ₅₀	l W	later Fl	ea		2.16 mg/L

hazardous substances

notification

chemicals

SARA 302/304 emergency planning and

SARA 302/304/311/312 hazardous

		96 hours				48 Hours		
EC ₅₀	Green algae	0.4 mg/L	EC ₅₀	Micro	otox	0.93 mg/L		
- 30	5 11 11 811	96 Hours	TIVE POTENTIAL			30 Min		
Log Pow		3.3	BCF			85.1		
Log I ow	SECTIO	N 13 * DISPO		RATIONS	3	03.1		
Not Meant To Be A		k Local, State, And						
						nciples. EPA U.S		
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,								
		ompliance with all						
		t be released into						
		of in accordance w	vith local regulation	ons.				
US EPA Waste N								
		14 I TRANSP						
	All Inclusive - Chec	k Local, State, And		Regulations				
Element		U.S. DOT	IMDG			IATA		
UN Numbe	er	UN 1863	UN 186	3		UN 1863		
UN Proper Shippin	ng Name Fuel, A	Aviation, Turbine	Fuel, Aviation, Turbine Engine, Marine Pollutant		Fuel, Aviation, Turbine			
Hazard Clas		Engine		Pollutant	Engine			
Hazard Cias	SS	3	3		3			
Placard/Lab	el	1863	>	<	*	73		
					11.41)C		
					IMI			
Environmental I	Hazard	Yes	Yes		Yes			
Packing Gro	up	III	III		III			
	SECTIO	N 15 DREGU	LATORY INFO	RMATION				
	Agency			Listing				
			Guidance only, consult specific regulations					
OSHA	2 GED D . (102)	All ingred	All ingredients are listed as hazardous under 29 CFR 1910.1200					
CERCLA RQ's (40	OCFR Part 102)			<u>alene – 100</u>	•	, 1		
TSCA 8(a)			All ingredier					
TSCA 8(b) SARA (40 CFR Pa	rt 355) TPO's		All ingredients are listed or exempted None of the ingredients are listed					
SARA 302/304/31	, , , , , , , , , , , , , , , , , , , ,							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			None of the ingredients are listed					

None of the ingredients are listed

None of the ingredients are listed

SARA Title III, Section 312 reporting threshold of 10,000 pounds one of the ingredient is listed, Naphthalene

RCRA	Waste with a flashpoint <140 °F is a characteristic waste with an EPA waste code of D001, Naphthalene – U165
State Regulations: Massachusetts, New Jersey, and Pennsylvania	All ingredients are listed
SARA 311/312 SDS distribution - chemical inventory - hazard identification	SARA Title III, Section 312 reporting threshold of 10,000 pounds Naphthalene: Fire hazard, Immediate(acute) health hazard, Delayed (chronic) health hazard
EPA Form R Toxic Chemical Release Inventory	Naphthalene
Clean Water Act (CWA) 307	Naphthalene
Clean Water Act (CWA) 311	Refer to 40 CFR 109, 110, and 112 for SPCC requirements Naphthalene
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Not 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.

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	IATA= International Air Transport	IMDG= International Maritime				
Research on Cancer	Association	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				



SDS #: MMP-005

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: Reformatted to meet GHS Requirements		

SDS REVISIONS: Reformatted to meet GHS Requirements

SDS CREATION DATE: 05/30/14 **REVISION #0:** 05/30/14

Caso Willand

Cass Willard, CIH

DISCLAIMER

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SDS DEVELOPER:

DATE: <u>05/30/14</u>