

**MATERIAL NAME:** Atmospheric Tower Bottoms



**SDS #:** MMP-011

## SAFETY DATA SHEET

### SECTION 1 ♦ IDENTIFICATION

Magellan Midstream Partners  
One Williams Center  
Tulsa, OK 74172

For Emergency Source Information Contact:  
➤ 3E Contact: (877-852-0015 or +1 (760) 602-8700

**GHS PRODUCT IDENTIFIER:** ATB's, Heavy Fuel Oil, #6 Fuel Oil, 6 Oil, and Bunker C.

**CHEMICAL FAMILY:**  
Petroleum Hydrocarbon

**PRODUCT USES:** Used primarily as a fuel source for internal combustion engines.

### SECTION 2 \* HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

Aspiration Hazard - Category 1

Carcinogenicity - Category 1B

Flammable Liquid and Vapor - Category 4

Reproductive Toxicity - Category 2

Specific Target Organ Toxicity (Repeat Exposure) - Category 2

Hazardous to the Aquatic Environment - Acute Hazard - Category 2

Hazardous to the Aquatic Environment - Chronic Hazard - Category 3

#### GHS LABEL ELEMENTS

#### Diesel Fuels, All Grades

#### GHS PICTOGRAMS

#### SIGNAL WORD



**DANGER**

#### HAZARD STATEMENTS

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Harmful to aquatic life.

Combustible liquid and vapor.

May cause genetic defects.

May cause respiratory irritation.

Suspect of causing cancer.

#### PRECAUTIONARY STATEMENTS

##### *Prevention*

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Use explosion-proof electrical/ ventilating/ lighting/equipment.

Take precautionary measures against static discharge.

Keep out of reach of children.

Wear protective gloves/protective clothing/eye protection/face protection.

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 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 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.

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*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**

Magellan Midstream Partners | One Williams Center | Tulsa, OK 74172

**SECTION 3 ▼ COMPOSITION/INFORMATION OF INGREDIENTS**

INGREDIENT	CAS NUMBER	PERCENTAGE (%)
Atmospheric Tower Bottoms	64741-45-3 (many related CAS Numbers)	0-100

Small amount of hydrogen sulfide, a highly toxic gas, may be present, especially in the headspace of containers.

**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 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

**COMBUSTIBLE!** 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. Also, diesel Exhaust has been reported to be an occupational hazard due to NIOSH-reported potential carcinogenic properties.

**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.

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<b>METHODS FOR CONTAINMENT</b>	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.
<b>METHODS FOR CLEANING UP</b>	Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.
<b>OTHER INFORMATION</b>	Water spray may reduce vapor but may not prevent ignition in closed spaces.

**SECTION 7 ✕ HANDLING AND STORAGE**

Prior to working with this product workers should be trained on its proper handling and storage

<b>PRECAUTIONS FOR SAFETY HANDLING</b>	<ul style="list-style-type: none"> <li>➤ Use only as a motor fuel.</li> <li>➤ Do not siphon by mouth.</li> <li>➤ Handle as a flammable liquid.</li> <li>➤ 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.</li> <li>➤ 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."</li> </ul>
<b>STORAGE PROCEDURES</b>	<ul style="list-style-type: none"> <li>➤ Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers.</li> <li>➤ 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.</li> <li>➤ Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code".</li> <li>➤ Avoid storage near incompatible materials.</li> </ul>
<b>INCOMPATIBILITIES</b>	<ul style="list-style-type: none"> <li>➤ Keep away from strong oxidizers.</li> </ul>

**SECTION 8 # EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS**

<b>Chemical Name</b>	<b>ACGIH TLV (2015)</b>	<b>OSHA PEL</b>	<b>NIOSH IDLH</b>
Atmospheric Tower Bottoms	Not Applicable	Not Applicable	Not Applicable

**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.

**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**

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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.

**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**

<b>BOILING POINT (760 MM HG):</b> >500 °F (>260 °C)	<b>PERCENT VOLATILE BY VOLUME:</b> Slight
<b>SPECIFIC GRAVITY (H<sub>2</sub>O = 1):</b> 0.876-1.0	<b>VISCOSITY UNITS, TEMP:</b> No data
<b>EVAPORATION RATE (BuAc = 1):</b> Negligible	<b>VAPOR DENSITY (AIR =1):</b> Negligible
<b>VAPOR PRESSURE AT 20°C:</b> <0.1 mm Hg	<b>SOLUBILITY IN WATER:</b> Negligible
<b>APPEARANCE AND ODOR:</b> Black, viscous liquid, with heavy, petroleum/asphalt-type odor	
<b>FLASH POINT:</b> (Method Used) >419 °F (>215 °C)	<b>FLAMMABLE LIMITS:</b> LEL: Not applicable UEL: Not applicable
<b>AUTOIGNITION TEMPERATURE:</b> 729.9 °F/ 387.7 °C	<b>VOC CONTENT:</b> 100%

**SECTION 10 ⚡ STABILITY AND REACTIVITY**

<b>CHEMICAL STABILITY:</b> Stable under normal temperatures and pressures
<b>HAZARDOUS REACTION POTENTIAL:</b> Will not occur
<b>CONDITIONS TO AVOID:</b> Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources.
<b>INCOMPATIBLE PRODUCTS:</b> Keep away from strong oxidizers.
<b>MATERIALS TO AVOID:</b> Contact with nitric and sulfuric acids will form nitroresols that can decompose violently.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b> Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).
<b>HAZARDOUS POLYMERIZATION:</b> Has not been reported
<b>OTHER PHYSICAL AND CHEMICAL PROPERTIES:</b> If uninhibited, diesel will cause rusting of copper and alloys containing copper.

**SECTION 11 ☠ TOXICOLOGICAL INFORMATION**

Diesel may be irritating to the eyes, respiratory system and skin. The main hazard associated is chemical pneumonitis that may arise following aspiration of liquid or inhalation of mist/vapor.

Toxicity

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LD <sub>50</sub> (oral)	Rat	No Data	LD <sub>50</sub> (dermal)	Rabbit	No Data	LC <sub>50</sub> (inh)	Rat (4 hours)	No Data

**CARCINOGENICITY**

<b>IARC</b>	Group 2B: Possibly carcinogenic to humans		
<b>NTP</b>	Not Listed		
<b>California (Prop 65):</b> Listed as carcinogen	<b>NIOSH:</b> Not Listed	<b>ACGIH:</b> Not Listed	<b>OSHA:</b> Not Listed
<b>RTECS #:</b>			

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**SECTION 12 \* ECOLOGICAL INFORMATION**

*ATMOSPHERIC TOWER BOTTOMS*

**TOXICITY**

Type Of Dose	Specie	Result	Type Of Dose	Specie	Result
LC <sub>50</sub>	Fathead Minnow	48 mg/L 48 hours	EC <sub>50</sub>	-----	No Data
EC <sub>50</sub>	-----	No Data	EC <sub>50</sub>	-----	No Data

**PERSISTENCE AND DEGRADABILITY**

No Data

**BIOACCUMULATIVE POTENTIAL**

Log P <sub>ow</sub>	No Data	BCF	No Data
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**MOBILITY IN SOIL**

K <sub>oc</sub> (Soil/water Partition Coefficient)	No Data
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**SECTION 13 \* DISPOSAL CONSIDERATIONS**

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

Maximize product recovery for reclaim and reuse. Implement waste minimization principles. 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 regulations.

US EPA Waste Number: Check Local, State, And Federal Laws And Regulations

**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 3257	UN 3257	UN 3257
UN Proper Shipping Name	Elevated Temperature Liquid, n.o.s.	Elevated Temperature Liquid, n.o.s.	Elevated Temperature Liquid, n.o.s.
Hazard Class	3	3	3

Placard/Label



Environmental Hazard	Yes	Yes	Yes
Packing Group	III	III	III

**SECTION 15 ) 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)	Consult specific regulation
SARA (40 CFR Part 355) TPQ's	Consult specific regulation
SARA 302/304/311/312 extremely hazardous substances	Consult specific regulation

SARA 302/304 emergency planning and notification	Consult specific regulation
SARA 302/304/311/312 hazardous chemicals	Consult specific regulation
RCRA	Consult specific regulation
State Regulations: Massachusetts, New Jersey, and Pennsylvania, and New York	All components are listed
SARA 311/312 SDS distribution - chemical inventory - hazard identification	Consult specific regulation
EPA Form R Toxic Chemical Release Inventory	Consult specific regulation
Clean Water Act (CWA) 307	Consult specific regulation
Clean Water Act (CWA) 311	Consult specific regulation
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	Consult specific regulation
Clean Air Act Section 602 Class I Substances	Consult specific regulation
Clean Air Act Section 602 Class II Substances	Consult specific regulation

**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/M <sup>3</sup> =Grams per Cubic Meter	GHS=Global Harmonization System
H <sub>2</sub> 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 <sub>50</sub> =Lethal Concentration Fifty	LD <sub>50</sub> =Lethal Dose Fifty	LEL=Lower Explosive Limit
Log P <sub>ow</sub> =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

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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 CREATION DATE:** 07/02/16

**REVISION #0:** 07/02/16

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SDS DEVELOPER:

  
Cass Willard, CIH

DATE: 07/02/16