SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: **MFA OIL BUCKY'S BEST BAR & CHAIN**
Product Code: FA38BC4P, FA38BC55, MSC00004

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Automotive Lubricants
Recommended restrictions: Not applicable

1.3. Details of the supplier of the safety data sheet

Manufacturer: MFA Oil Company
One Ray Young Drive
Columbia, MO 65201
Information Phone: (800) 827-0116
E-mail: sds@wd-wpp.com

1.4. Emergency telephone number

Emergency phone number: CHEMTREC: +1 (800) 424-9300
International: +01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Carcinogenicity Category 1B
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Hazardous to the aquatic environment - Acute Category 2
Hazardous to the aquatic environment - Chronic Category 3

2.2. Label elements

GHS Hazard Symbols

Signal Word Danger

Hazard Statements
H350 - May cause cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
H401 - Toxic to aquatic life..
H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.
P281 - Use personal protective equipment as required.

Response
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.

Storage
P405 - Store locked up.

Disposal
P501- Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Hazards not otherwise classified: Avoid prolonged or repeated skin contact with used fluid.

Unknown acute toxicity (GHS-US)

Unknown Acute Toxicity (Gas): 11.211093 % of the mixture consists of ingredient(s) of unknown toxicity.

SECTION 3: Composition/information on ingredients

Chemical Name	%	CAS #	GHS Classification
Petroleum distillates, hydrotreated heavy paraffinic	60 - 90	64742-54-7	Acute Tox. 4; H332 Acute Tox. 3; H331
Residual oils, petroleum, solvent-refined	1 - 5	64742-01-4	Acute Tox. 4; H332 Acute Tox. 3; H331
Distillates, petroleum, hydrodesulfurized middle	0.5 - 1.5	64742-80-9	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Acute Tox. 4; H332 Carc. 1A; H350 Skin Irrit. 2; H315 STOT RE 2; H373
Distillates, petroleum, hydrodesulfurized light catalytic cracked	0.5 - 1.5	68333-25-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Asp. Tox. 1; H304 Acute Tox. 4; H332 Carc. 1A; H350 Skin Irrit. 2; H315 STOT RE 2; H373
Distillates, petroleum, straight-run middle	0.5 - 1.5	64741-44-2	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Acute Tox. 4; H332 Acute Tox. 2; H330 Carc. 2; H351 Flam. Liq. 3; H226 STOT RE 2; H373 STOT SE 3; H335, H336
Kerosene	0.5 - 1.5	8008-20-6	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335, H336
Light hydrocracked distillate	0.1 - 1	64741-77-1	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Acute Tox. 4; H332 Carc. 2; H351 Skin Irrit. 2; H315 STOT RE 2; H373
Polysulfides, di-tert-Bu	0.1 - 1		Aquatic Chronic 3; H412

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen and get medical attention immediately.

Eyes Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact Wash with soap and water. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately. Seek medical advice if symptoms persist.

SECTION 4: First aid measures

Ingestion Seek medical attention immediately or call the Poison control center. Do not induce vomiting. If patient is fully conscious, give up to two glasses of water. Provide medical care provider with this SDS.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Dizziness, Drowsiness, Severe pulmonary irritation

4.3. Indication of any immediate medical attention and special treatment needed

Note to Doctor Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration. In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption. Consideration should be given to the use of an endotracheal tube, to prevent aspiration. Individuals intoxicated by middle distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function. Positive pressure ventilation may be necessary. After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary edema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic, and renal impairment. Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated. Avoid emesis unless a large amount has been ingested or it contains a toxic additive. Gastric lavage after endotracheal intubation should be reserved for a patient who requires GI decontamination and is lethargic or obtunded. Safe use of activated charcoal and cathartic should be considered if ingested. Mineral oil cathartics should not be given to patients. Saline cathartics or sorbatol is preferrable. In case of skin injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable and Unsuitable Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.

5.2. Special hazards arising from the substance or mixture

Fire and/or Explosion Hazards Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

5.3. Advice for firefighters

Fire Fighting Methods and Protection Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.Use methods for the surrounding fire.

Hazardous Combustion Products Carbon monoxide, Smoke

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General Measures: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

6.2. Environmental precautions

Do not flush to sewer.
Avoid runoff into storm sewers and ditches that lead to waterways.
Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.
Avoid runoff into storm sewers and ditches that lead to waterways.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center. {EMSFORM_06GHS_CLEAN}

6.4. Reference to other sections

Follow all protective equipment recommendations provided in Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place. Isolate from incompatible materials.

Incompatible materials

See Section 10.

7.3. Specific end use(s)

Automotive Lubricants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
Oil mist, mineral	OSHA PEL	5 mg/m3
Oil mist, mineral	OSHA PEL	5 mg/m3
Oil mist, mineral	OSHA PEL	5 mg/m3
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OSHA PEL	5 mg/m3
Oil mist, mineral	OSHA PEL	5 mg/m3
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Kerosene	ACGIH TLV-TWA	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor)
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Chemical Name	Occupational Exposure Limits	Value
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ACGIH STEL	10 mg/m3
Oil mist, mineral	ACGIH STEL	10 mg/m3
None.	IDLH	
None.	OSHA PEL-Skin Notation	
Kerosene	ACGIH TLV-Skin Designation	Skin - potential significant contribution to overall exposure by the cutaneous route

8.2. Exposure controls

Engineering Measures	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Respiratory Protection	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Respirator Type(s)	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
Eye Protection	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves	Neoprene, Nitrile

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid
Color	Amber
Odor	Mild
Odor threshold	Not determined
pH	Not determined
Freezing point	Not determined
Boiling Point	Not determined
Flash Point	193
Flash Point Method	COC
Evaporation Rate	Not determined
Upper Flammable/Explosive Limit, % in air	= 10
Lower Flammable/Explosive Limit, % in air	= 1
Flammability (solid, gas)	Not applicable
Vapor pressure	<0.20
Vapor Density	Not determined
Relative Density	0.87
Solubility in Water	Insoluble
Octanol/Water Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity(°C)	96

9.2. Other information

Volatiles, % by weight	0.000000

SECTION 10: Stability and reactivity

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerization will not occur.
10.4. Conditions to avoid	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.Moisture (will lead to product performance degradation).
10.5. Incompatible materials	Strong oxidizing agents
10.6. Hazardous decomposition products	Carbon monoxide, Smoke, Carbon monoxide, sulfur oxides, aldehydes, and other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus, calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Ingestion Toxicity	No hazard in normal industrial use.Estimated to be 5.0 g/kg.
Skin Contact	This material is estimated to be severely irritating (Primary Irritation Index is 6.0 - 6.5 [rabbits]).Can cause severe irritation, defatting, and dermatitis. Irritation effects may last for hours or days but will not likely result in permanent damage.
Absorption	Likely to be practically non-toxic based on animal data.
Inhalation Toxicity	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact	The material is likely to be moderately irritating to eyes based on animal data. Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Sensitization	Non-hazardous under Respiratory Sensitization category.No data available to indicate product or components may be a skin sensitizer.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity	Contains a substance that is a probable cancer hazard based on animal studies using doses likely to be encountered in the workplace.
Reproductive and Developmental Toxicity	No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Specific target organ toxicity-Single exposure	Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
Specific target organ toxicity-Repeated exposure	H373 - May cause damage to organs through prolonged or repeated exposure.
Long-Term (Chronic) Health Effects	Dizziness, Drowsiness, Severe pulmonary irritation
Aspiration toxicity	Non-hazardous under Aspiration category.
Other information	No data available.

Agents Classified by IARC Monographs

Benzene	IARC Group 1
Not applicable	IARC Group 2A
Naphthalene	IARC Group 2B
ethylbenzene	IARC Group 2B
Vinyl acetate	IARC Group 2B
Cumene	IARC Group 2B
Methyl isobutyl ketone	IARC Group 2B
Ethyl acrylate	IARC Group 2B

National Toxicity Program (NTP) Status

Benzene	Known Human Carcinogen
Naphthalene	Reasonably Anticipated To Be A Human Carcinogen
Cumene	Reasonably Anticipated To Be A Human Carcinogen

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SECTION 12: Ecological information

12.1. Toxicity

Acute Aquatic ecotoxicity: Non-hazardous under Aquatic Acute Environment category.

Chronic Aquatic ecotoxicity: H412 - Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Biodegrades slowly.

12.3. Bioaccumulative potential

Bioconcentration may occur.

12.4. Mobility in soil

This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not determined

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Methods

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

Waste Disposal Code(s)

Waste Description for Spent Product

Spent or discarded material is not expected to be a hazardous waste.

Contaminated packaging:

Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.
Recycle containers whenever possible.

SECTION 14: Transport information

DOT Basic Description Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO).

SECTION 15: Regulatory information

Chemical Inventories

TSCA Status All components of this material are on the US TSCA Inventory or are exempt.

U.S. State Restrictions: Not applicable

WHMIS: Uncontrolled product according to WHMIS classification criteria

Chemical Name	Regulation	CAS #	%
None.	CERCLA		
Naphthalene	SARA 313	91-20-3	0.01 - 0.1
Zinc	SARA 313	7440-66-6	0.01 - 0.1
Xylene (mixed isomers)	SARA 313	1330-20-7	0.01 - 0.1
ethylbenzene	SARA 313	100-41-4	0.001- 0.01
Toluene	SARA 313	108-88-3	0.001- 0.01
Benzene	SARA 313	71-43-2	0.001- 0.01
Biphenyl	SARA 313	92-52-4	0.001- 0.01
Phosphorus	SARA 313	7723-14-0	0.001- 0.01
Vinyl acetate	SARA 313	108-05-4	0.001- 0.01
Cumene	SARA 313	98-82-8	0.001- 0.01

Chemical Name	Regulation	CAS #	%
Methyl isobutyl ketone	SARA 313	108-10-1	<10ppm
Ethyl acrylate	SARA 313	140-88-5	<10ppm
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
Naphthalene	California Prop 65-Cancer	91-20-3	0.01 - 0.1
ethylbenzene	California Prop 65-Cancer	100-41-4	0.001- 0.01
Benzene	California Prop 65-Cancer	71-43-2	0.001- 0.01
Cumene	California Prop 65-Cancer	98-82-8	0.001- 0.01
ISOBUTYL METHYL KETONE	California Prop 65-Cancer	108-10-1	<10ppm
Ethyl acrylate	California Prop 65-Cancer	140-88-5	<10ppm
Toluene	California Prop 65- Dev. Toxicity	108-88-3	0.001- 0.01
Benzene	California Prop 65- Dev. Toxicity	71-43-2	0.001- 0.01
Methyl isobutyl ketone (MIBK)	California Prop 65- Dev. Toxicity	108-10-1	<10ppm
None.	California Prop 65-Reprod -fem		
Benzene	California Prop 65-Reprod-male	71-43-2	0.001- 0.01
Kerosine	Massachusetts RTK List	8008-20-6	0.5 - 1.5
Kerosene	New Jersey RTK List	8008-20-6	0.5 - 1.5
Kerosine	Pennsylvania RTK List	8008-20-6	0.5 - 1.5
None.	Rhode Island RTK List		
None.	Minnesota Hazardous Substance List		

HMIS Ratings:		NFPA Ratings:	
Health:	2	Health:	2
Fire:	1	Fire:	1
Reactivity:	0	Reactivity:	0
PPE:	B		

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

SECTION 16: Other information

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References ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
CFR: Code of Federal Regulations
DOT: United States Department of Transportation
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS: Hazardous Materials Identification System
IARC: International Agency for Research on Cancer
IATA: International Air Transportation Association

SECTION 16: Other information

IDLH: Immediately Dangerous to Life or Health
IMDG: International Maritime Dangerous Goods
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
RTK: Right-to-Know
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term Exposure Limit
TLV: Threshold limit value
TSCA: Toxic Substances Control Act
TWA: Time weighted average
UN: United Nations
WHMIS: Workplace Hazardous Materials Information System

Disclaimer

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.