MARVEL OIL CO., INC.
2250 W. PINEHURST BLVD., SUITE 150
ADDISON, IL 60101

SAFETY DATA SHEET

1. Product and Company Identification

1.1 Product Identifier

Product Name:	Marvel Ultimate Fuel & Motor Treatment
Product Code (SKU):	50665

1.2 Relevant Identified Uses Of The Substance

Product Use:	Fuel additive (EPA Registered)

1.3 Details of the Supplier of the SDS

Company Name:	Manufactured for Marvel Oil Company, Inc. By The Lubrizol Corporation
Street Address:	29400 Lakeland Blvd
City, State, Zip Code:	Wickliffe, Ohio 44092-2298

1.4 Emergency Telephone Numbers

Phone Number:	1(630)455-3700
Fax Number:	1(630)455-3868
Transportation:	1(800)424-9300 (CHEMTREC)
Medical Assistance:	Call your local Poison Control Center

2. Hazard Identification:

2.1 Classification of the Substance or Mixture

Hazard Classification:	Flammable liquid 4 Aspiration toxicity 1 Mild Skin Irritant 3

2.2 Label Elements

Pictogram:

Signal Word:	Danger
Hazard Statement:	Combustible liquid and vapor. May be fatal if swallowed and enters airways.
Precautionary Statement:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, clothing, splash goggles and face shield. Avoid release to the environment. Wash hands thoroughly after handling. IF SWALLOWED: Immediately call a POISON Center/doctor. Do NOT induce

vomiting. In case of fire: use CO_2, dry chemical, or foam for extinguishing. Wash hands thoroughly with soap and water after handling. Water can be used to cool and protect exposed material. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/containers to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

2.3 Other Hazards

Description of additional HNOC: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Information on Ingredients:

3.1 Substance not applicable

3.2 Mixture

Component	CAS Number	Concentration (wt%)
Petroleum Oil	64742-55-8	40-50%
Petroleum Naphtha	64742-47-8	40-50%
Hydrocarbyl Amine	Confidential	1-5%

4. First Aid Measures:

4.1 Description of First Aid Measures

Inhalation: Remove to fresh air and promote deep breathing. Get medical attention if effects persist or you feel un-well.
Skin: In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing and footwear. Launder clothing before re-use. Call a physician if irritation develops or persists.
Eyes: In case of eye contact, immediately flush eyes thoroughly, with plenty of water. Remove contact lenses if worn, and easy to do. If irritation persists, get medical attention
Ingestion: If swallowed, do not induce vomiting. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, lean person forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person. Immediately call a poison control center or physician.

4.2 Most important symptoms and effects – acute and chronic

Inhalation: May cause respiratory tract irritation. Vapors may cause drowsiness or dizziness.
Skin: Cause mild skin irritation. Symptoms may include redness, drying, defatting, and cracking of skin.
Eyes: May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.
Ingestion: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea, and vomiting.

4.3 Indication of any immediate medical attention and special treatment

Symptoms may not appear immediately. Seek medical attention if effects develop or persist and you feel un-well.

5. Fire Fighting Measures:

5.1 Extinguishing media

Carbon dioxide, dry chemical, and foam

5.2 Special hazards arising from the substance or mixture

CO_2, CO, and hydrocarbons
Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

5.3 Advice for Fire Fighters

Keep up wind of fire. Wear full firefighting turn out gear (full bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water. See Section 8 for personal protection.

6. Accidental Release Measures:

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate all source of ignition.

6.2 Methods and materials for containment and clean up

For containment: Dike up and contain spill for recovery. Absorb spill with inert material. Place in suitable container for disposal. Do not flush to sewer or allow to enter waterways. See section 8 for PPE.

For clean up: Pick up free liquid and place in suitable container for recycle and/or disposal. Take up residual material, using a suitable absorbent, and place in a suitable container for disposal. Vapors may be heavier than air and may travel along the ground to a distant source of ignition. Provide adequate ventilation.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from source of ignition. Do not smoke. Take precaution to eliminate static discharge. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not swallow. Do not eat or drink while handling. Wash hands with soap and water after handling. Use only non-sparking tools. Wear appropriate personal protective equipment. Avoid environmental contamination.

7.2 Conditions for safe storage including incompatibilities

Keep out of reach of children. Store in a well ventilated place. Do not store above 49°C (120°F).

7.3 Specific end uses

Shelf Life: Shelf life is considered to be 7 – 10 years when properly stored.

8. Exposure Control/Personal Protection:

8.1 Control parameters

Exposure Limits 8 hr TWA:	(OSHA PEL)	(ACGIH TWA)
Petroleum Oil (Mist)	5 mg/m^3	5 mg/m^3
Petroleum Naphtha (Vapor)	100 mg/m^3	200 mg/m^3
Hydrocarbyl Amine	not applicable	not applicable

8.2 Exposure controls

Use adequate ventilation to keep exposure below recommended limits. Ensure that eye wash station and safety shower are close to work station.

Hand Protection Equipment: Wear chemical resistant gloves to prevent skin contact.
Eye Protection Equipment: Wear safety glasses or splash goggles to prevent eye contact.
Skin and Body Protection: Wear suitable protective clothing.
Respiration/Ventilation Protection Requirements: Provide good ventilation.
Ingestion Protection Requirements: Do not eat, drink or smoke while handling. Wash hands with soap and water after handling. Launder all clothing and foot wear before re-use.

9. Physical And Chemical Properties:

9.1 Information of basic chemical and physical properties

Physical Form:	thin liquid
Color:	light amber
Odor:	mild
Odor Threshold:	not available
pH:	not applicable – oil based product
Melting Point/Freeze Point:	not available
Initial Boiling Point:	not available
Flash Point (Seta Closed Cup):	71ºC (160ºF)
Flammability Limits:	**Explosive Limits:** **Upper:** not available **Lower:** not available
Evaporation Rate:	not available
Flammability Solid/Gas:	not applicable
Vapor Pressure:	not available
Vapor Density:	not available
Specific Gravity:	0.8-0.9 @15.6ºC(60.1ºF)
Solubility in Water:	insoluble
Auto Ignition Temperature:	not available
Partition coefficient (n/octonol/water):	not available
Viscosity (Kinimatic @ 100ºC):	4 mm^2/sec @40ºC (104ºF)

9. 2 Other information

% NVM by Weight:	55.0%
% VOC Content (California):	45.0%

10. Stability and Reactivity:

10.1 Reactivity
Does not react under normal conditions

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Does not react under normal conditions

10.4 Conditions to avoid
Heat sparks, ignition sources, and incompatible materials

10.5 Incompatible materials
Strong oxidizers such as bleach and peroxides

10.6 Hazardous decomposition products
CO_2, CO and hydrocarbons including aldehydes, hydrogen sulfide, and alkyl mercaptans. Combustion may also generate smoke.

11. Toxicological Information:

11.1 Information on Toxicological effects

Marvel Ultimate Fuel & Motor Treatment

LD50 – Oral Rat	>2000 mg/Kg
LD50 – Dermal Rabbit	>2000 mg/Kg
LC50 – Inhalation Rat	>20 mg/L (4 hr)

Petroleum Oil (64742-55-8)

LD50 – Oral Rat	>5000 mg/Kg
LD50 – Dermal Rabbit	>5000 mg/Kg
LC50 – Inhalation Rat	>5 mg/L (4 hr)

Petroleum Oil (64742-47-8)

LD50 – Oral Rat	>5000 mg/Kg
LD50 – Dermal Rabbit	>5000 mg/Kg
LC50 – Inhalation Rat	>5 mg/L (4 hr)

Skin corrosion/irritation	Cause mild skin irritation
Serious eye damage/irritation	Based on available data, classification data are not met
Respiratory or skin sensitization	Based on available data, classification data are not met
Germ cell mutagenicity	Based on available data, classification data are not met
Carcinogenicity	Based on available data, classification data are not met No materials existing above 0.1%.
Reproductive toxicity	Based on available data, classification data are not met
Specific target organs – single exposure	Based on available data, classification data are not met
Specific target organs – repeated exposure	Repeated exposure to petroleum naphtha can cause nervous system damage
Aspiration hazard	May be fatal if swallowed and enters air ways.
Symptoms/injuries after inhalation	May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.
Symptoms/injuries after skin contact	Cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of skin.
Symptoms/injuries after eye contact	May cause temporary eye irritation. Symptoms may include discomfort or pain, excess blinking and tearing, with redness and swelling.
Symptoms/injuries after ingestion	May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea, and vomiting.

12. Ecological Information:

12.1 Toxicity
Not recommended for release into aquatic systems without treatment

12.2 Persistence and degradability
Generally not bio-degradable

12.3 Bioaccumulative potential
Not established

12.4 Mobility in soil
Not established

12.5 Other adverse effects
None known

13. Disposal Considerations:

13.1 Waste treatment methods

RCRA Hazardous Waste:	Regulated as a hazardous waste (D-001 Ignitable).
Waste Disposal Method:	Dispose of in accordance with local, state and federal regulations. Containers may exhibit hazards.
Waste Disposal Vessel:	Metal drums are recommended.

14. Transportation Information:

14.1 UN number
1993

14.2 UN Proper shipping name
Combustible liquid, n.o.s., Petroleum naphtha, Hydrotreated middle distillate)

14.3 Transport Hazard class
3

14.4 Packaging group
III

14.5 Marine Pollutant
No

14.6 Transportation in Bulk
Not applicable

14.7 Special precautions
Use limited quantities or ORM-D

15. Regulatory Information:

15.1 US Federal Regulations

TSCA Status: All ingredients are commercially available and listed by the manufacturer under TSCA.

15.2 Foreign Regulations

Canadian Status: All materials contained in this product are listed on the Canadian Domestic Substance List (DSL). Consult Turtle Wax, Inc. regarding status of ingredients.

European Union: All materials contained in this product are listed on EINECS.

AICS: All materials are registered for AICS (Australia)

Korea: All components are in compliance for Korea.

New Zealand: All components are in compliance with chemical notification requirments in New Zealand.

Philippines: All components are in compliance with the Philippines Toxic Substance and Hazardous and Nuclear Waste Control Act of 1990 (R.A. 6969).

Switzerland: All components are in compliance with the Environmentally Hazardous Substance Ordinance in Switzerland.

Taiwan (TSCA): All components of this material are listed on the Taiwan inventory.

15.3 State Regulations

State Regulatory Information:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements, contact the appropriate agency in your state.

California Prop 65:*

CAS Number	Concentration	State Code
Naphthalene (91-20-3)	535.00 PPM	Cancer
Ethyl benzene (100-41-4)	5.00 PPM	Cancer
Propylene oxide (75-56-9)	1.00 PPM	Cancer
Benzene (71-43-2)	473.00 PPB	Cancer
Toluene (108-88-3)	467.00 PPB	Developmental
Ethylene Oxide (75-21-8)	138.00 PPT	Cancer
Methanol (67-56-1)	17.00 PPT	Developmental

***Note:** These chemicals are considered impurities and may or may not exist in the product. They are not intentionally added to the product as ingredients.

15.4 HMIS & NFPA Classifications

HMIS Classification:	Health	1
	Flammability	2
	Reactivity	0
NFPA Classification:	Health	1
	Flammability	2
	Reactivity	0

16. Other Information:

Reason For Issue	New Product Launch / Correct text errors- Minor
Prepared By	James Heidel
Preparer's Title	Technical Director, R&D
SDS Administrator	Jean Mayszak - Technical Compliance Manager, R&D
Approval Date	October 18, 2016
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