# MATERIAL SAFETY DATA SHEET



# 1. Product and Company Identification

Material name	Works Thumper Synthetic Ester 4T Engine Oil 10W-60
Product Code	99551
MSDS Number	6777
Version #	1.0
Revision date	08-29-2014
Product use	Engine Oil
Manufacturer information	Bel-Ray Company, Inc. P.O. Box 526 Farmingdale, NJ 07727 United States customerservice@belray.com www.belray.com/msds_search +1 732 938 2421 CHEMTREC: +1 703-527-3887 (outside USA) CHEMTREC: 800-424-9300 (USA)

### 2. Hazards Identification

Emergency overview	Harmful in contact with eyes. Prolonged exposure may cause chronic effects.		
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).		
Potential health effects			
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.		
Eyes	Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.		
Skin	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.		
Inhalation	Prolonged inhalation may be harmful. Avoid breathing dust/fume/gas/mist/vapors/spray.		
Ingestion	Components of the product may be absorbed into the body by ingestion. Do not ingest.		
Target organs	Eyes. RESPIRATORY SYSTEM. Skin.		
Chronic effects	Conjunctiva. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.		
Signs and symptoms	Corneal damage. Conjunctivitis. Defatting of the skin. Skin irritation. Rash.		
Potential environmental effects	May cause long-term adverse effects in the environment.		

# 3. Composition / Information on Ingredients

Components	CAS #	Percent
White Mineral Oil (petroleum)	8042-47-5	10 - 20
Other components below reportable levels		80 - 90

# 4. First Aid Measures

#### First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Skin contact	Wash off with warm water and soap. Get medical attention if irritation develops and persists.
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

Ingestion	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If ingestion of a large amount does occur, call a poison control center immediately. Never give liquid to an unconscious person.
Notes to physician	Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.		
Extinguishing media			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Dry chemicals.		
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Water.		
Protection of firefighters			
Protective equipment and precautions for firefighters	Wear suitable protective equipment.		
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.		
Hazardous combustion products	May include oxides of nitrogen. Carbon monoxide and carbon dioxide.		
6. Accidental Release Measures			
Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.		

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Methods for containment ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Scrub the area with detergent and water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

#### 7. Handling and Storage

Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged or repeated contact with skin. Use only in well-ventilated areas. Avoid prolonged exposure. Avoid release to the environment.
Storage	Keep away from heat and sources of ignition. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Use care in handling/storage.

### 8. Exposure Controls / Personal Protection

#### **Occupational exposure limits**

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
White Mineral Oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

Components	s for Air Contaminants (29 CFR 1910.1000) Type	, Value	Form		
White Mineral Oil (petroleum) (8042-47-5)	PEL	5 mg/m3	Mist.		
Engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.				
Personal protective equipment	nt				
Eye / face protection	Do not get in eyes. Chemical goggles are reco	mmended. Eye wash	fountain is recommended.		
Skin protection	Wear appropriate chemical resistant clothing.	Chemical resistant gl	oves.		
Respiratory protection	When workers are facing concentrations abov certified respirators.	e the exposure limit	they must use appropriate		
General hygiene considerations	Do not get in eyes. Avoid contact with skin. K with good industrial hygiene and safety practi		and drink. Handle in accordance		
9. Physical & Chemical I	Properties				
Appearance	Liquid. Liquid.				
Physical state	Liquid.				
Form	Liquid. Liquid.				
Color	Amber. Amber.	Amber.			
Odor	Slight. Petroleum Slight. Petroleum				
Odor threshold	Not available.	Not available.			
рН	Not available.				
Vapor pressure	0.000011 hPa estimated				
Density	853.00 kg/m3	853.00 kg/m3			
Vapor density	Not available.				
Boiling point	600.08 °F (315.6 °C) estimated				
Melting point/Freezing point	Not available.				
Solubility (water)	Not available.				
Solubility (other)	Not available.				
Specific gravity	0.906853038 estimated				
Relative density	Not available.				
Flash point	381.20 °F (194.00 °C) Pensky-Martens Closed	d Cup			
Flammability limits in air, upper, % by volume	Not available.				
Flammability limits in air, lower, % by volume	Not available.				
Auto-ignition temperature	500 °F (260 °C) estimated				
VOC	< 1 %				
Other data					
Flammability class	Combustible IIIB estimated				
Kinematic viscosity	169 cSt				
Kinematic viscosity temp	104 °F (40 °C)				
10. Chemical Stability &	Reactivity Information				
Chomical stability	Matarial is stable under permal conditions				

Chemical stability	Material is stable under normal conditions.	
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.	
Incompatible materials	Not available.	

### **11. Toxicological Information**

Toxicological data			
Product	Species	Test Results	
Works Thumper Synthetic Ester	4T Engine Oil 10W-60 (Mixture)		
Acute			
Dermal			
LD50	Rabbit	3784.2952 mg/kg, estimated	
Inhalation			
LC50	Rat	9460.7383 mg/m <sup>3</sup> , estimated	
Oral			
LD50	Rat	60606.0625 g/kg, estimated	
		3332.7778 mg/kg, estimated	
Local effects	ay be based on additional component data not shown. Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.		
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Prolonged exposure may cause		
Carcinogenicity	chronic effects.		
carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Due to lack of data the classification is not possible.		
ACGIH Carcinogens			
METAL WORKING FLUI	bleum) MINERAL OIL, EXCLUDI DS, PURE, HIGHLY AND SEVERI RACTION (CAS 8042-47-5)	IG A4 Not classifiable as a human carcinogen. ELY	
IARC Monographs. Overa	all Evaluation of Carcinogen	city	
MINERAL OILS, HIGHLY	(-REFINED (CAS 8042-47-5)	3 Not classifiable as to carcinogenicity to humans.	
Skin corrosion/irritation	Due to lack of data the class	ification is not possible.	
Mutagenicity	Due to lack of data the classification is not possible.		
Reproductive effects	Due to lack of data the classification is not possible.		

## 12. Ecological Information

Ecotoxicological data			
Product		Species	Test Results
Works Thumper Synthetic E	ster 4T Engine Oil	10W-60 (Mixture)	
Crustacea	EC50	Daphnia	29696.9688 mg/l, 48 hours, estimated

\* Estimates for product may be based on additional component data not shown.

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal
Persistence and degradability	Not available.

# **13. Disposal Considerations**

	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport Information

### DOT

Not regulated as dangerous goods.

### ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

### 15. Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
	All components are on the U.S. EPA TSCA Inventory List.
	CERCIA/CARA Upperdays Substances Net employels

CERCLA/SARA Hazardous Substances - Not applicable.

#### **CERCLA (Superfund) reportable quantity**

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	No	
Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all compo	nents of this product comply with the inventory requirements administered l	by the governing country(s)
State regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 is not known to contain any chemicals currently listed as carcinoge	•

Listed.

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

White Mineral Oil (petroleum) (CAS 8042-47-5)

### 16. Other Information

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
Disclaimer	Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Product and Company Identification Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties