Ryobi Outdoor Products 550 N. 54th Street Chandler, AZ 85226 800-345-8746

MATERIAL SAFETY DATA SHEET

Trade Name:

RYOBI, RYAN, IDC

Product:

2 cycle 32:1 engine oil

Part Number:

147541, 147541r, 147543r, 180708r, 180719r

Manufacturer:

CITGO Petroleum Corporation

Post Office Box 3758 Tulsa, Oklahoma 74102

Material Hazard Evaluation

(Per OSHA Hazard Communication Standard [29 CFR Part 1910.1200]) (OHCS)

Health: Non-Hazardous (OHCS).

Precautionary Statement: CAUTION: Combustible liquid. Do not inhale vapors not permit direct dermal contact.

HMIS Retings: Health 0 Flammability 2 Reactivity 0

1.0 Generic Composition / Components

Components Refined Petroleum Oil(s)	<u>CAS: #</u> 64741-88-4 64742-01-4	<u>%</u> 70-90	Hazard Data Oral LD50(rat): > 15g/kg
Mineral Spirits	8 052-41-3	< 20	Oral LDLo(hm): > 10ml Eye: Mild irritant Skin: Mild irritant
Ashless Dispersant and Anti-oxidant	Mixture	< 15	Eye and skin imitant
Coupling Agent	Mixture < 1	Oral LD50(rat): 3.8 cc/kg Moderate cye irritant Slight skin irritant	
Dye	Mixture	< 0.1	Skin: Irritant. Vapors in high concentration are anesthetic.

Acute Exposure Symptoms

Inhalation:

Low risk of inhalation. In enclosed spaces or when hot, vapors may reach concentrations sufficient to cause drowsiness, dezentess, head-tiche, musea, or

lung imitation. Mists above TLV may cause chemical pneum mitis.

Dermal Contact:

Mild imitant.

Eye Contact:

Mildly imitating.

Insestion

Toxicity is relatively low. However, of a Saybolt viscosit of about 446 (100°F), the risk of aspiration into the lungs is negligible. On ingestion of large quantities, slight GI discomfort, diarrhea, and headache may occur. Small

doses may produce imitation and diambes.

Injection

Subcutaneous or intramuscular injection should be considered as a medical

coletgency.

Chronic Exposure

Prolooged and/or frequent dermal contact may cause drying, cracking (dermatitis) or folliculatis. Repeated, excessive exposure to mists or fumes may induce pulmonary irritation or chronic bronchitis.

Other Special Effects

None expected.

Medical Conditions Aggravated by Exposure

Noss.

First Aid and Emergency Procedures for Acute Effect

Inhalation:

Remove to Iresh air. Respiratory support, if necessary. Seek medical aid.

Dermal:

Wash with soap and water. Do not wear heavily contaminated clothing before

laundering.

Eves

Flush with large volumes of water. Seek physician if any complications arise.

Ingestion

Do not induce vomiting. Seek medical aid.

Injection:

Subcutaneous injection is a medical emergency. Seek medical a d immediately.

Notes to Physician: Following ingestion, at a Saybolt viscosity of about 446 SUS, (100°F), the risk of aspiration into the lungs is negligible. Removal by cuffed tube lavage may be considered. Aspirated material may cause chemical pneumonitis or lipoid pneumonia. Subcutaneous or intramuscular injection requires prompt surgical debridement. If not familiar with technique, seek skilled advice.

Physical Data 2.0

Physical Hazard Classification (Per 29 CFR Part 1910.1200)

Yes	Combustible	No	Flammable	No	Pyrophoric
No	Compressed Gas	70	Organic Peroxide		Reactivity
No	Explosive	No	Oxidizer	Yes	Stable

Boiling Point, 760 mmHg, $^{\circ}C(^{\circ}F)$: > 149(> 300) Specific Gravity (60/60°F) (H,O. = 1): 0.88

Vapor Density (Air = 1): >1 % Volatiles by Volume: < 20

Melting Point, "C("F): NA
Vapor Pressure, mmHg (25"C): ND
Solubility in H,O., "by Weight: Negl
Evaporation Rate (Butyl Acetate = 1): <1 Negligible

pH of Undiluted Product: ND

Appearance and Odor: Purple liquid, slight odor of persoleum distillate.

Fire and Explosion Data 3.0

Flash Point, COC, "C("F)	121(250)		
Flash Point, PMC, "C("F)	79(174)		
Fire Point, COC, *C(*F)	154(309)		
NFPA Rating ²	Health: 0 Flammability: 2 Reactivity: 0		
Flammable Limits (% by volume in air)	Lower: ND Upper: ND		
Eximpushing Media	CO, dry chemical, foam, water fog		
Special Fire Fighting Procedure	None.		
Unusual Fire or Explosion Hazard	Water may cause frothing.		

Reactivity Data 4.0

Stability: Stable.

Conditions Contributing to Instability: Excessive heat.

Incompatibility: Strong exidents.

Hezerdous Decomposition Products: CO, (CO under incomplete combustion)

(thermal, unless otherwise specified)

Conditions Contributing to Hazardous

Polymerization: None.

Spill or Leak Procedures 5.0

Procedures if Material is Spilled:

- Remove sources of heat or ignition, provide adequate ventilation, contain leak.
- Small Spills: Absorb with suitable material such as rays, straw or sand.
- Large Spills: Contain spill in sauthen dikes for later recovery.
- Report spills as required to appropriate authorities.

Waste Disposal:

- It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal.
- Check before disposing to be sure you are in compliance with all applicable laws and regulations.
- Chemtree/RCRA Emergency Hotline Number: 800-424-9346.

Protective Measures During Repair and Maintenance of Contaminated Equipment:

- Refer to Section VII Special Protection Information.
- Avoid prolonged contact with oil.
- Wash exposed skin thoroughly with soap and water.
- Remove soiled clothing.
- Use polymer gloves if extended, direct contact is expected.

Health Hazard Data 6.0

Health Hazard Classification

(Per 29 CFR Part 1910:1200)

Product listed as Carcinogen or Potential Carcinogen by:

NTP No IARC No OSHA No Other No

Toxicity Summary: Slightly to moderately toxic. Lethal dose for 150 ib, human adult may be 10 to 250 ml. Major Route(s) of Entry: Inhalation of incidental mists or vapors, slight dermal absorbability.

7.0 Special Protection Information

Ventilation Requirements:

Use in well ventilated area. In confined space, mechanical ventilation may be required to keep levels of certain component: below mandated

standards, as evaluated by designated personnel.

Permitted Air Threshold Concentration:

Mineral Oil Mist TWA: STEL: Ceil., Peak: Smg/m³ ND ND 5 mg/m³ ND ND

Specific Personal Protective Equipment:

Respiratory:

Normally none required. If high vapor or mist concentrations expected, use respirator approved for organic vapors and mists.

Eyes:

Safety goggles, or chemical splash goggles if splashing is anticipated.

Dermal:

Oil impervious gloves if frequent or prolonged contact is expected.

Other Clothing or Equipment:

Wear body-covering work clothes to avoid prolonged or repeated exposure. Launder solled work clothes before reuse.

8.0 Transportation and Special Precautions

Storage:

Store below 150°F. Do not apply high heat or flame to container. Keep separate from strong

exidizing agents.

Caution:

Empty containers may contain product residue which could include flammable or explosive

V20013.

Consult appropriate Federal, State and Local authorities before reusing, a conditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

DOT Information

Proper Shipping Name:

Hazard Class:

Hazard Identification Number:

Placard:

Coast Guard, CHRIS Code: Compatability Category: Petroleum Lubricating Oil

Combusible Liquid NA 1270

Combustible Liquid

OMT Group 33

9.0 Environmental Data

Product Name Commodity Code:

IDC Triamer Oil

25-487

SARA TITLE III

Section 313 - Toxic Chemicals

This product does not contain toxic chemicals of Section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372.

Components

CAS

%

None

NA

NA

Section 311 - Hazard Categories

No Not Applicable

No Acute (Immediate Health Hazard)
No Chronic (Delayed Health Hazard)

No Fire Hazard:
No Sudden Release of Pressure Hazard

No Reactive Hazard

Section 302/(A) - Extremely Hazardous Substances

(RQ = Reportable Quantity)

(TPQ = Threshold Planning Quantity)

This product does not contain Extremely Hazardous Substances of Section 302/(A).

Component None CASH

%

RQ Ibs.

TP) lbs.

Clean Water Act

Under Section 311 (b) (4) of the Clean Water Act, discharges of crude oil and petroleum products in any kind or form to surface waters must be immediately reported to the National Response Center: 800-424-8802.

Comprehensive Environmental, Response, Compensation & Liability Act (CERCLA) - Section 107 Hazardous Substances

Component None CASH

%

RQ lbs.

Petroleum and petroleum fractions are excluded from the list of CERCLA hazardous substances by Section 101(14) of CERCLA.

New Jersey Worker & Community Right-to-Know Act

Petroleum Oil

10.0 Labeling

CAUTION

Combustible liquid.
Contains petroleum distillates.
Keep away from heat and flame.

Harmful or fatal if swallowed. Do not induce vomiting. Call a physician immediately.

Keep out of reach of children.

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