

Material Safety Data Sheet

STIHL

[Back to MSDS page](#)

For More Information Contact Dena Harless, 757/486.9251

Specialty Oil Company Division of Quaker State
Stihl Two Cycle Engine Oil

Date Issued: April 2, 1995
Supersedes Date: October 31, 1990

Material Safety Data Sheet
Westland Oil Company
P.O. Box 8098
Shreveport, LA 71108

A. Identification and Emergency Information

Product Name:	Product Code:
Stihl Two-Cycle Engine Oil	
Chemical Name:	CAS Number:
Petroleum Lubricating Oil	Complex Mixture
	CAS Number Not Applicable

Product Appearance and Odor:
Dark Emerald Green Liquid; Ammonia
Odor

Emergency Telephone Number:
(318)-687-8000

B. Components and Hazard Information

Components	CAS No. of Components	Approximate Concentration
Lubricating Oil	64742-54-7 and 64742-65-0 and	Greater than 85%
Base Stocks	64742-57-0 or 64742-62-7	
	Mixture - 8052-41-3	
Additive Package		Less than 10%
Mineral Spirits		Less than 10%

Hazardous Material Identification System (HMIS):

Health	Flammability	Reactivity
1	2	0

Hazard Ratings: 0-Least ; 1-Slight ; 2-Moderate ; 3-High ; 4-Extreme

Exposure Limit for Total Product	Basis: Recommended by Westland for
100 ppm (570 mg/m ³) for an 8-hour	light hydrocarbon fraction present in
workday.	product.

C. Primary Routes of Entry and Emergency and First Aid Procedures

Eye Contact:

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

Skin:

In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

Inhalation:

Vapor pressure is very low. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician. If breathing is irregular or has stopped, start resuscitation; administer oxygen, if available. If overexposed to oil mist, remove from further exposure until excessive oil mist condition subsides.

Ingestion:

If ingested, Do Not induce vomiting; call a physician immediately.

D. Fire and Explosion Hazard Information

Flash Point (Minimum): 175+ (PMCC)	Autoignition Temperature: Greater than 500 F
---------------------------------------	---

National Fire Protection Association (NFPA):

Health	Flammability	Reactivity
1	2	0

Hazard Ratings: 0-Least ; 1-Slight ; 2-Moderate ; 3-High ; 4-Extreme

Basis:

Recommended by Westland

Handling Precautions:

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

Flammable or Explosive Limits (Approximate Percent by Volume in Air)

Estimated values: Lower Flammable Limit 0.9% Upper Flammable Limit 7%.

Extinguishing Media and Fire Fighting Procedures:

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fire involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials". Eighth Edition (1984):

Use water spray, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Minimize breathing gases, vapor, fumes, or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

Decomposition Products Under Fire Conditions:
Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustions.

"Empty" Container Warning:

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARK, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations. ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

E. Health and Hazard Information

Variability Among Individuals:

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists, or fumes should be minimized.

Effects of Over Exposure (Signs and Symptoms of Exposure):

Prolonged or repeated skin contact may cause skin irritation.

Nature of Hazard and Toxicity Information:

In accordance with the current OSHA Hazard Communication Standard criteria, this product does not require a cancer hazard warning. This is because the product is formulated from base stocks which are severely hydrotreated, severely solvent extracted, and/or processed by mild hydrotreatment and extraction. Alternatively, it may consist of components not otherwise affected by IARC criteria, such as vacuum distillates or synthetically derived materials, and as such is not characterized by current IARC classification criteria.

Prolonged or repeated skin contact with this product tends to remove skin oils possibly leading to irritation and dermatitis. However based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Continuous contact with used motor oil has caused skin cancer in animal tests.

Product contacting the eyes may cause eye irritation.

Product has low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possible death.

This product is judged to have an acute oral LD50 (rat) greater than 5g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

Pre-Existing Medical Conditions Which May Be Aggravated by Exposure:
None Recognized

F. Physical Data

Boiling Range:
Not determined

Vapor Pressure:
Less than 5 mm HG @20 C

Specific Gravity:
0.8810

Vapor Density (Air=1):
Greater than 5

Molecular Weight:
Not determined

Percent Volatile by Volume:
8.0

Ph:
Essentially Neutral

Evaporate Rate @ 1 ATM. And 25 C (77 F) (n-Butyl Acetate=1):
0.2

Pour, Congealing, or Melting Point:
-20 F Pour Point by ASTM D97

Solubility in Water @ ATM. and 25 C (77F):
Negligible: less than 0.1%

Viscosity:
74.43 cSt @ 40 C

G. Reactivity

This product is stable and will not act violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

H. Environmental Information

Steps To Be Taken in Case Material is Released or Spilled:
Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities of product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.

Reportable Quantity (RQ), EPA Regulation 40 CFR 302:
Not applicable

Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372:
Not applicable

EPA Hazard Classification Code:
Acute Hazard, Chronic Hazard, Fire Hazard, Pressure Hazard, Reactive Hazard, Not Applicable XXX

I. Protection and Precautions

Ventilation:
Use local exhaust to capture vapor, mists, or fumes, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment. No smoking or open lights.

Respiratory Protection:
Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

Protective Gloves:
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

Stihl : Material Safety Data Sheet

Eye Protection:
Use splash goggles or face shield when eye contact may occur.

Other Protection:
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

Work Practices/Engineering Controls:
Keep Containers and storage containers closed when not in use. Do not store near heat, sparks, flame, or strong oxidants.

Personal Hygiene:
Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean before reuse; discard if oil soaked. Clean skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. Transportaion Information

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents. DOT P 5800.3.

DOT Identification Number:
Not Applicable

The information and recommendations contained herein are, to the best of Westland's knowledge and belief, accurate and reliable as of the date issued. Westland does not warrant or guarantee their accuracy or reliability, and Westland shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

The Environmental Information included under section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Westland Oil Company, Inc., in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Westland's interpretation of the available data.

For additional information on health effects contact:

For additional information on health effects contact:
Westland Oil Company, Inc.
2740 Valleyview Dr.
Shreveport, LA 71148
(318)-687-8000

For other product information contact:
Specialty Oil Company, Inc
2740 Valleyview Dr.

Shreveport, LA 71148
(318)-687-8000

Material Safety Data Sheet www.stihlusa.com