



Material Safety Data Sheet

Prepared according to OSHA Hazard Communication Standard (29 CFR 1910.1200) and ANSI MSDS Standard (Z400.1). Complies with Canadian Workplace Hazardous Materials Information System (WHMIS) standards.

Revision Date 16-Dec-2014

Revision Number 14

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SWEPCO 502 Engine Oil Improver
Product Code W30110

Chemical Family Petroleum hydrocarbon
Recommended Use Engine oil additive

Supplier Address Southwestern Petroleum Corporation, 534 North Main St, Fort Worth, TX 76106 USA
1-800-877-9372
www.swepcousa.com

Emergency Telephone Number Chemtrec 1-800-424-9300
UN-No None

2. HAZARDS IDENTIFICATION

CAUTION!
Emergency Overview Combustible liquid. Irritating to eyes, respiratory system and skin.



NFPA Health 1 **Flammability** NFPA 1 **Instability** 0

WHMIS Not a WHMIS controlled product

Appearance Dark green, Dark grey **Physical State** Liquid **Odor** Petroleum distillates Solvent

Principle Routes of Exposure Skin contact. Eye contact. Inhalation.

Acute Health Effects

Skin May cause skin irritation and/or dermatitis. Avoid prolonged and/or repeated contact with skin. Prolonged and/or repeated contact with this material may produce skin irritation or inflammation. Personnel with pre-existing skin disorders should avoid contact with this product.

Eyes	Irritating to eyes.
Inhalation	Inhalation of vapors or mists in high concentration may cause irritation of respiratory system. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing. Aspiration into lungs can produce severe lung damage.
Ingestion	Ingestion is not considered a likely route of exposure. Low order of acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause mild to severe pulmonary injury and possibly death. If vomiting occurs, keep head below hips to prevent aspiration.
Carcinogenic Effects	Carcinogenic effect of the complete mixture has not been evaluated. Information on individual ingredients which may have carcinogenic effects, if any, will be found in Section 3 & 11.

Chronic Health Effects

Reports have associated repeated and prolonged occupational overexposure to petroleum based products with liver, kidney, brain and nervous system damage. There is, however, no reported human evidence that these effects occur when exposure is maintained below recommended exposure limits

Aggravated Medical Conditions No information available.

See Section 11 for additional toxicological information.

See Section 12 for ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

If any of the components of this product are defined as hazardous by OSHA Hazard Communication Standard 1910.1200 and are present at 1% or more (0.1% or more for carcinogens) or are considered hazardous components according to Canadian WHIMIS standards, they will be listed in this section. If no components appear in this section, no components of the product meet or exceed the reporting requirements.

4. FIRST AID MEASURES

Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Call a physician or Poison Control Center immediately. Do not induce vomiting without medical advice. If vomiting occurs, keep head below hips to prevent aspiration.
Notes to Physician	Treat symptomatically. Nitrobenzene forms methemoglobin in the blood, reducing oxygen transport and producing cyanosis and anemia, convulsions, coma and death may follow. Aspiration may result in chemical pneumonitis.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Combustible material: may burn but does not ignite readily.
Suitable Extinguishing Media	Dry chemical or CO2, Cool containers with flooding quantities of water until well after fire is out
Hazardous Combustion Products	No information available.
Specific Hazards Arising from the Chemical	Keep product and empty container away from heat and sources of ignition.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Other Information	Report spills as required to the appropriate authorities.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines	The table below lists known exposure levels for any components of this product which are considered hazardous. Keep in mind, however, that these exposure levels are for pure concentrations of these ingredients. If no table appears below, occupational exposure limits have not been established or are not known for any of the ingredients in this product:
Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Eye/face Protection	Safety glasses with side-shields.
Skin Protection	Use protective gloves and clothing if contact with product is likely.
Respiratory Protection	If personal exposure levels cannot be maintained below accepted exposure limits or if irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark green, Dark grey	Odor	Petroleum distillates, Solvent
Physical State	Liquid	pH	No data available
Flash Point	151 °C	Autoignition Temperature	> 356 °C
Boiling Point/Range	> 151 °C	Melting Point/Range	No data available
Flammability Limits in Air, %		No data available Lower 0.8 Upper 7.0	
Specific Gravity (Water=1)	0.87	Solubility In Water	Insoluble
Vapor Density (Air=1)	>3	Volatiles, % Vol	Nil

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Toxicity of this complete mixture has not been evaluated. If information is available on any of the individual components of the mixture, it is presented in this section. If no information appears in this section, there is no toxicological information available for any of the components of the mixture.

Acute Toxicity

The table below indicates toxicological information for specific ingredients at concentrations indicated. If no table appears, no toxicological information was found.

Chronic Toxicity

Reports have associated repeated and prolonged occupational overexposure to petroleum based products with liver, kidney, brain and nervous system damage. There is, however, no reported human evidence that these effects occur when exposure is maintained below recommended exposure limits.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. If no table appears, no toxicological information was found.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity and biodegradability of this complete mixture have not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water and should not be considered readily biodegradable. If information is available on any of the individual components of the mixture, it is presented in this section. If no information appears in this section, there is no ecotoxicity or biodegradability information available for any of the components of the mixture.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of contents/container in accordance with local regulation.

California Waste Status

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

U.S. Regulations & Inventories The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the inventories referenced or are exempt from listing. See Section 16 for explanation of column headings:

U.S. State Right-to-Know Regulations The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the inventories referenced or are exempt from listing. See Section 16 for explanation of column headings:

Canada Regulations & Inventories The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the inventories referenced or are exempt from listing. See Section 16 for explanation of column headings:

This product has been classified in accordance with the hazard criteria of the Canadian CPR (Controlled Products Regulations) and the MSDS contains all the information required by the CPR.

International Regulations & Inventories The table below lists any regulatory or inventory listing information found for ingredients of this product which are considered hazardous. All other components are either listed on the inventories referenced or are exempt from listing. See Section 16 for explanation of column headings:

16. OTHER INFORMATION

Regulatory Lists Searched & Other Sources of Information

ACGIH - American Conference of Governmental Industrial Hygienists
ADN - European Agreement for International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement for International Carriage of Dangerous Goods by Road
AICS - Australian Inventory of Chemical Substances
ANSI - American National Standards Institute
CAP65 - California Proposition 65 Hazard List
CAS - Chemical Abstract Services
CERCLA - Comprehensive Environmental Response, Compensation & Liability Act
CHINA - China Inventory
CPR - Canadian Controlled Products Regulations
DOT - United States Department of Transportation
DSL - Canada Domestic Substances List
EINECS - European Union (EU) European Inventory of Existing Commercial Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods Code

MARTK - Massachusetts Right To Know List
NDSL - Canada Non-Domestic Substances List
NFPA - United States National Fire Protection Association
NIOSH - United States National Institute for Occupational Safety & Health
NJRTK - New Jersey Right To Know List
NTP - United States National Toxicology Program
OSHA - United States Occupational Safety & Health Administration
PARTK - Pennsylvania Right To Know List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
RCRA - United States Resources Conservation & Recovery Act
RID - European Agreement for International Carriage of Dangerous Goods by Rail
RIHSL - Rhode Island Hazardous Substance List
SARA - United States Superfund Amendments & Reauthorization Act
TDG - Canada Transportation of Dangerous Goods Act
TSCA - US Toxic Substances Control Act
WHMIS - Canada Workplace Hazardous Materials Information System

Definitions

EC50 - Effective Concentration (Concentration of a compound where 50% of the expected effect is observed.)
LC50 - Lethal Concentration (The concentration in water that will kill 50% of the test animals within a specific period of time, usually 96 hours.)
LD50 - Lethal Dose (The single dose that will kill 50% of the test animals by any route other than inhalation such as by ingestion or skin contact.)
OEL - Occupational Exposure Limit
PEL - Permissible Exposure Limits
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TWA - Time Weighted Average
TWAEV - Time Weighted Average Exposure Value

Prepared By Regulatory Compliance Department

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The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS