

AMSOIL Material Safety Data Sheet

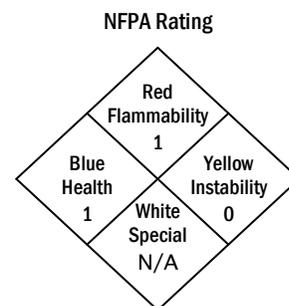
Date Issued/Revised: August 7, 2009
Supersedes: September 10, 2008

Section 1: Product and Company Identification

Manufacturer: AMSOIL, Inc. Telephone: 925 Tower Avenue CHEMTREC (Spill Emergency Only): 1-800-424-9300 Superior, WI 54880 Information: 715-392-7101

Product Codes	SGK ISO 100	SGL ISO 150	SGM ISO 220	SGN ISO 320	SGO ISO 460	SGP ISO 680
	SGQ ISO 1000					

Product Label NameSynthetic EP Industrial Gear Oil
Product UseLUBRICATING OIL



Section 2: Composition/Information on Ingredients

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

This product is not formulated to contain ingredients that have exposure limits exceeding those established by US agencies.

Section 3: Hazards Identification

POTENTIAL HEALTH EFFECTS: Minor eye, inhalation and skin irritant.
*See Section 11 for toxicological information.

Section 4: First Aid Measures

- EYE: Flush with water for 15-20 minutes. Seek medical attention if irritation develops.
- SKIN: Wash immediately with soap and water. Remove contaminated clothing and launder before reuse. Discard shoes and leather articles saturated with the product. Obtain medical advice if irritation occurs.
- INHALATION: Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. Get immediate medical attention.
- INGESTION: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. If vomiting does occur, keep head below hips to reduce risk of aspiration. Get immediate medical attention.

Section 5: Fire Fighting Measures

FLAMMABILITY PROPERTIES:

	SGK ISO 100	SGL ISO 150	SGM ISO 220	SGN ISO 320
Flash Point	475°F(246°C)	475°F(246°C)	489°F(254°C)	478°F(248°C)
	SGO ISO 460	SGP ISO 680	SGQ ISO 1000	
Flash Point	486°F(252°C)	471°F(244°C)	475°F(246°C)	

MethodCOC ASTM D-92
LFL/UFLNot Determined
Auto-ignition TemperatureNot Determined

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, and alcohol foam.

FIREFIGHTING EQUIPMENT: Full bunker gear recommended including a positive pressure self-contained breathing apparatus.

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Section 6: Accidental Release Measures

Isolate spill area. Provide adequate ventilation. Wear appropriate personal protection. Recover free product for recycle and/or disposal. Add sand, earth or other suitable absorbent to spill area. Prevent entry into sewers and waterways. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulator Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spill.

Section 7: Handling and Storage

HANDLING: Keep containers closed. Avoid contact with eyes, skin or clothing. Wash hands after handling. Empty container may retain product residue which may exhibit hazards of product.

STORAGE: Keep away from heat or flame.

Section 8: Exposure Controls/Personal Protection

VENTILATION: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

RESPIRATORY: Use a NIOSH approved respirator when necessary.

SKIN: Use Viton or Nitrile gloves to avoid prolonged or repeated skin contact.

EYE: Use splash goggles or face shield where splashing is expected or can occur.

EXPOSURE LIMITS: The Threshold Limit Value (TLV) of 5 mg/m³ is suggested for oil mist.

Section 9: Physical and Chemical Properties

	SGK ISO 100	SGL ISO 150	SGM ISO 220	SGN ISO 320	SGO ISO 460
Physical State	Liquid				
Boiling Point	Not Determined				
Freezing/Melting Point	-45°F (-43°C)	-40°F (-40°C)	-36°F (-38°C)	-33°F (-36°C)	-24°F (-31°C)
Vapor Pressure	Negligible				
Vapor Density (Air=1)	Not Determined				
Evaporation Rate	Not Determined				
Solubility in Water	Negligible				
Specific Gravity (Water=1)	0.8580	0.8607	0.8649	0.8692	0.8702
Density, lb./gal.	7.128	7.167	7.202	7.238	7.246
Volatility (Volume)	Not Determined				
VOC	Not Determined				
pH	Essentially Neutral				
Odor	Mild, Bland Hydrocarbon Odor				
Odor Threshold	Not Determined				
Appearance	Light Straw Transparent Fluid				
Viscosity, cSt @ 100°C	14.30	19.7	26.2	34.1	44.9
Viscosity, cSt @ 40°C	101.6	154.9	226.5	326.9	470.7
Viscosity Index	144	146	147	148	150

	SGP ISO 680	SGQ ISO 1000
Physical State	Liquid	
Boiling Point	Not Determined	
Freezing/Melting Point	-22°F (-30°C)	-9°F (-23°C)
Vapor Pressure	Negligible	
Vapor Density (Air=1)	Not Determined	
Evaporation Rate	Not Determined	
Solubility in Water	Negligible	
Specific Gravity (Water=1)	0.8751	0.8800

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Density, lb./gal.	7.287	7.328
Volatility (Volume)	Not Determined	
VOC	Not Determined	
pH	Essentially Neutral	
Odor	Mild, Bland Hydrocarbon Odor	
Odor Threshold	Not Determined	
Appearance	Light Straw Transparent Fluid	
Viscosity, cSt @ 100°C	58.6	82.4
Viscosity, cSt @ 40°C	686.7	1055.9
Viscosity Index	150	156

Section 10: Stability and Reactivity

STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Avoid contact with strong oxidants.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION OF PRODUCT: Toxic oxides of carbon, aldehydes and other products of incomplete combustion.

Section 11: Toxicological Information

ACUTE EXPOSURE

Eye Irritation: Moderate to strong eye irritation. Based on data from components or similar material.

Skin Irritation: Not expected to be a primary skin irritant. Based on data from components or similar material. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.

Respiratory Irritation: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.

CHRONIC EXPOSURE

Chronic Toxicity: No data available to indicate product present at greater than 1.0% are chronic health hazards.

Carcinogenicity: No data available to indicate product present at greater than 0.1% are a carcinogenic hazard.

Mutagenicity: No data available to indicate product present at greater than 1.0% present a mutagenic or genotoxic hazard.

Reproductive Toxicity: No data available to indicate product present at greater than 1.0% present a reproductive hazard.

Teratogenicity: No data available to indicate product present at greater than 1.0% present a teratogenic hazards.

ADDITIONAL INFORMATION

Exposure Limits: Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter.

Section 12: Ecological Information

No data available on the adverse effects of this product on the environment.

Section 13: Disposal Considerations

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Section 14: Transport Information

This product is not classified as hazardous material for DOT shipping. For further information relative to spills resulting from transportation incidents, refer to the latest DOT Emergency Response Guidebook for Hazardous Materials.

Section 15: Regulatory Information

U.S. Federal Regulations

- OSHA Table Z Synthetic Base Stock (mist)
- TSCA.....Listed
- CERCLA 40 CFR 302.4..... Not Applicable
- SARA Title III
 - Section 302 Extremely Hazardous..... Not Applicable
 - Section 311/312
 - Fire Hazard Yes
 - Reactive Hazard.....No
 - Release of Pressure.....No
 - Acute Health Hazard Yes
 - Chronic Health Hazard.....No
 - Section 313 Toxic Chemical..... Not Applicable

U.S. State Regulations

- California (Prop 65)
 - Does not contain chemicals known to the state of California to cause cancer.

International Regulations

- WHMIS All components listed

Section 16: Other Information

The information and recommendations contained herein are, to the best of AMSOIL's knowledge and belief, accurate and reliable as of the date issued. AMSOIL makes no warranty or guarantee, expressed or implied, of their accuracy or reliability, and AMSOIL shall not be liable for any loss or damage based upon the criteria supplied by the developers of these rating systems, together with AMSOIL's interpretation of the available data.