

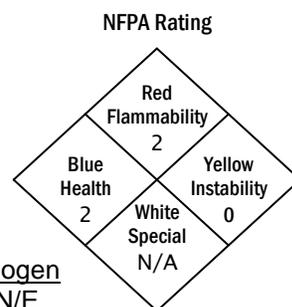
**AMSOIL Material Safety Data Sheet**

Date Issued/Revised: October 11, 2007  
Supersedes: August 17, 2007

**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

AMSOIL Product Code ..... API12  
Product Label Name ..... P.I. Performance Improver Concentrate  
Product Use ..... FUEL ADDITIVE GASOLINE DETERGENT/DISPERSANT



**Section 2: Composition/Information on Ingredients**

**OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)**

Component	CAS#	Weight%	Carinogen
Hydrocarbon solvent.....	Confidential.....	44.4 – 53.6%.....	N/E
Polyether amine.....	Confidential.....	27.7 – 36.9%.....	N/E
Petroleum Naphtha.....	64742-94-5.....	9 – 4.5%.....	N/E
Substituted Aliphatic amine.....	Confidential.....	9 – 4.5%.....	N/E
Naphthalene.....	91-20-3.....	0.2%.....	IARC Suspect Carcinogen NTP Carcinogen

Please Note: The chemical identity of some or all of the above ingredients is confidential business information and may be withheld as permitted by 29 CFR 1910 1200 and various State Right to Know Laws. Trade secret may apply.

\*See Section 8 for exposure limits.

**Section 3: Hazards Identification**

Appearance: Light yellow liquid  
Odor: Mild  
Principal Hazards: **WARNING.**

- HARMFUL IF INHALED
- CAUSES SKIN IRRITATION
- CAUSES RESPIRATORY TRACT IRRITATION
- COMBUSTIBLE LIQUID
- MAY CAUSE EYE IRRITATION
- CONTAINS COMPONENTS WHICH MAY CAUSE CANCER
- MAY CAUSE CHRONIC HEALTH EFFECT.

Target Organs: Central nervous system

This material is considered hazardous by the OSHA Hazard Communication standard 29CFR 1910.1200  
**See Section 11 for complete health hazard information.**

**Section 4: First Aid Measures**

EYE: Flush with water for 15-20 minutes. Seek immediate medical attention.  
SKIN: Wash immediately with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.  
INHALATION: Remove exposed person to fresh air. If breathing is labored give oxygen. If breathing has stopped apply artificial respiration. If irritation persists or if toxic symptoms are observed, 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.

NOTE TO PHYSICIAN: Treat symptomatically

**Section 5: Fire Fighting Measures**

FLAMMABILITY PROPERTIES: Flash Point ..... 162°F(72°C)  
Method ..... N/A  
LFL/UFL ..... Not Determined  
Auto-ignition Temperature ..... Not Determined

EXTINGUISHING MEDIA: CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

FIREFIGHTING EQUIPMENT: Recommend wearing self-contained breathing apparatus. Water may cause splattering

UNUSUAL FIRE & EXPLOSION: Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Containers may rupture on heating.  
HAZARDS

**Section 6: Accidental Release Measures**

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section or PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. 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 away from potential sources of ignition. Open containers in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Wash hands thoroughly after handling. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

STORAGE: Do not store near potential sources of ignition. Store in well ventilated place. Equip bulk storage tanks with overflow protection such as high level alarms or secondary containment. Storage area should be covered to prevent rain water from entering.

**Section 8: Exposure Controls/Personal Protection**

Component	CAS#	%	
Petroleum naphtha	64742-94-5	.9 – 4.5	Other TWA 100 (l) ppm
Naphthalene	91-20-3	0.2	ACGIH TWA : 10 ppm STEL 15 ppm, OSHA TWA: 10 ppm

(s) – Skin exposure (p) – Proposed limit (c) – Ceiling exposure  
(l) – Recommended exposure limit (u) supplier recommended exposure limit (N/E) – Not established

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

RESPIRATORY: Use a NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

SKIN: Use Neoprene gloves

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

EXPOSURE LIMITS: None Known

**Section 9: Physical and Chemical Properties**

Physical State .....	Liquid
Boiling Point .....	Not Determined
Freezing/Melting Point .....	Not Determined
Vapor Pressure .....	Not Determined
Vapor Density (Air=1) .....	Not Determined
Evaporation Rate .....	Not Determined
Solubility in Water .....	Insoluble
Specific Gravity (Water=1) .....	0.8767
Density, lb./gal. ....	Unknown
Volatility (Volume) .....	Unknown
VOC.....	Unknown
pH.....	Not Determined
Coefficient of Water/Oil Distribution .....	Not Determined
Odor .....	Mild
Odor Threshold .....	Not Determined
Appearance .....	Light yellow liquid
Viscosity @ 40°C, cSt .....	10.57
Viscosity Index .....	Not Applicable
Pour Point.....	-31°C (-24°F)

**Section 10: Stability and Reactivity**

STABILITY: Stable under moderately elevated temperatures and pressures.

INCOMPATIBILITY: Strong acids. Strong oxidizing agents

POLYMERIZATION: Will not occur.

THERMAL DECOMPOSITION: Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Ammonia. Propylamine, polyalkylglycols, and aliphatic alcohols may also be released

**Section 11: Toxicological Information**

**ACUTE EXPOSURE**

- Eye Irritation: Weak to moderate eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from components and similar materials.
- Skin Irritation: 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: Nose, throat and lung irritant. Based on data from components or similar materials. Exposure under high concentration of vapor or mist is irritating to the respiratory tract.
- Oral Toxicity: The LD50 in rats is >5000 mg/kg. Based on data from components or similar materials. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in pulmonary edema and chemical pneumonitis.
- Inhalation Toxicity: High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions.
- Dermal Toxicity: The LD50 in rabbits is >2000 mg/Kg. Based on data from components or similar material.

CHRONIC EXPOSURE

- Chronic Toxicity: Repeated overexposure to petroleum naphtha can cause nervous system damage.
- Carcinogenicity: There is no evidence of carcinogenicity for the middle distillates present in this product. A two-year National Toxicology Program study found an increased incidence of tumors of the nose in rats exposed to naphthalene by inhalation. In mice similarly exposed, increased incidences of alveolar. Bronchiolar adenomas were observed. Naphthalene has been classified by the International Agency for Research on Cancer (IARC) as possible human carcinogen (Group B) on the basis of sufficient evidence of carcinogenicity in experimental animals but inadequate evidence in exposed humans.
- 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.

Section 12: Ecological Information

- Freshwater Fish Toxicity: The acute LC50 is <1 mg/L based on component data
- Freshwater Invertebrates Toxicity: The acute EC50 is <1 mg/L based on component data

ENVIRONMENTAL FATE

- Biodegradation: At least 25% of the components in this product show moderate biodegradation based on OECD 302-typed test data.
- Bioaccumulation: 25% or grater of the components potentially bioconcentrate, based on octanol/water coefficients
- Soil Mobility: Not determined

Section 13: Disposal Considerations

This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

Section 14: Transport Information

ICAO/IATA (US)	Not Regulated
ICAO/IATA (International)	Not Regulated
IMDG	Not Regulated
IMDG EMS Fire	Not Applicable
IMDG Ems Spill	Not Applicable
IDMG MFAG	Not Applicable
IMO Marine Vessel	Not Determined
USCG Compatibility	Not Determined
U.S. DOT Bulk	Combustible Liquid, n.o.s. (Hydrocarbon solvent, Hydrocarbyl amine), NA1993, PGIII, RQ
U.S. DOT Non-Bulk	Not Regulated
DOT NAERG	128
TDG Bulk	Not Regulated
TDG Non-Bulk	Not Regulated
Bulk Quantity	85000 liters, 22457 gal
Non-Bulk Quantity	207.8 Liters, 55 gal

**Section 15: Regulatory Information**

**U.S. Federal Regulations**

OSHA Table Z ..... Not Applicable

TSCA ..... Not Applicable

CERCLA 40 CFR 302.4 ..... Not Applicable

Components RQ (lbs)

Naphthalene ..... 5560 Gal / 21043 liters

**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 ..... Yes

Section 313 Toxic Chemical ..... 0.2% Naphthalene, CAS no. 91-20-3

**U.S. State Regulations**

**California (Prop 65)**

This product contains the following chemicals known to the state of California to cause cancer and/or defects: 0  
0.2% Naphthalene, CAS no. 91-20-3

**International Regulations**

WHMIS ..... All components listed

Canada All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

**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.