

MATERIAL SAFETY DATA SHEET

PUMP SAVER - 6 OZ - AR64510

CRANKCASE PUMP OIL

IDENTIFICATION OF THE SUBSTANCE OR PREPARATION:	Pump Saver
COMPANY IDENTIFICATION:	AR North America
ADDRESS:	140 - 81st Avenue NE Fridley, MN 55432

HAZARDOUS IDENTIFICATIONS:

EMERGENCY OVERVIEW:	- WARNING! HARMFUL OR FATAL IF SWALLOWED, HARMFUL, IF INHALED OR ABSORBED THROUGH SKIN, MAY CAUSE ALLERGIC SKIN REACTION, MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT, AFFECTS CENTRAL NERVOUS SYSTEM.
INHALATION:	Vapor inhalation is generally not a problem unless heated or misted. Exposure to vapors over an extended time period has caused throat irritation and headache. May cause nausea, vomiting, dizziness and drowsiness. Pulmonary edema and central nervous system depression may also develop. When heated or misted, has produced rapid, involuntary eye movement and coma.
INGESTION:	Initial symptoms in massive dosage parallel alcohol intoxication, progressing to CNS depression, vomiting, headache, rapid respiratory and heart rate, lowered blood pressure, stupor, collapse, and unconsciousness with convulsions. Death from respiratory arrest or cardiovascular collapse may follow. Lethal dose in humans: 100 ml (3-4 ounces)
SKIN CONTACT:	Minor skin irritation and penetration may occur.
EYE CONTACT:	Splashes may cause irritation, pain, eye damage.
CHRONIC EXPOSURE:	Repeated small exposures by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. May damage the developing fetus.
AGGRAVATION OF PRE-EXISTING CONDITION:	Persons with pre-existing skin disorders, eye problems, or impaired liver, kidney, or respiratory function may be more susceptible to the effect of this substance.

FIRST-AID MEASURES:

INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
INGESTION:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
SKIN CONTACT:	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
EYE CONTACT:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
NOTE TO PHYSICIAN:	Give sodium bicarbonate intravenously to treat acidosis. Urinalysis may show low specific gravity, proteinuria, pyuria, cylindruria, hematuria, calcium oxalate, and hippuric acid crystals. Ethanol can be used in antidotal treatment but monitor blood glucose when administering ethanol because it can cause hypoglycemia. Consider infusion of a diuretic such as mannitol to help prevent or control brain edema and hemodialysis to remove ethylene glycol from circulation.

FIRE-FIGHTING MEASURES:

FLASH POINT:	>110°C (230°F) - Auto ignition temperature 398°C (748.4°F) - Flammable limits in air % by volume: lel: 3.2; uel: 15.3
EXPLOSION:	Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Containers may explode when involved in a fire.

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FIRE EXTINGUISHING MEDIA:	Dry chemical, foam or carbon dioxide. Water or foam may cause frothing. Water spray may be used to extinguish surrounding fire and cool exposed containers. Water spray will also reduce fume and irritant gases.
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SPECIAL INFORMATION:	In the event of a fire, wear full protective clothing, and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Toxic gases and vapors may be released if involved in a fire.
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ACCIDENTAL RELEASE MEASURES:

VENTILATE AREA OF LEAK OR SPILL:	Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!
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HANDLING AND STORAGE:

HANDELING AND STORAGE PROCEDURES:	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Separate from acids and oxidizing materials. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.
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EXPOSURE CONTROLS/PERSONAL PROTECTION:

AIRBORNE EXPOSURE LIMITS:	OSHA Permissible Exposure Limit (PEL): 50 ppm Ceiling ACGIH Threshold Limit Value (TLV): 50 ppm Ceiling (vapor)
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VENTILATION SYSTEM:	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work areas. Please refer to the ACGIH document, <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition, for details.
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PERSONAL RESPIRATORS (NIOSH APPROVED):	If the exposure limit is exceeded, a half-face respirator with an organic vapor cartridge and particulate filter (NOISH type P95 or R95 filter) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator with an organic vapor cartridge and particulate filter (NIOSH P100 or \$100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. Please note that N series filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
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SKIN PROTECTION:	Wear protective gloves and clean body-covering clothing.
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EYE PROTECTION:	Use chemical safety goggles. Maintain eye was fountain and quick-drench facilities in work area.
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STABILITY AND REACTIVITY:

STABILITY:	Stable under ordinary conditions of use and storage.
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HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide and carbon monoxide may form when heated to decomposition. May produce acrid smoke and irritating fumes when heated to decomposition.
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HAZARDOUS POLYMERIZATION:	Will not occur.
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MATERIAL SAFETY DATA SHEET (CONT)

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INCOMPATIBILITIES:	Strong oxidizing agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid. Causes ignition at room temperature with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 212°F (100°C) with ammonium dichromate, silver chlorate, sodium chloride and uranyl nitrate.
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CONDITIONS TO AVOID:	Heat, flames, ignition sources, water (absorbs readily) and incompatibles.
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TOXICOLOGICAL INFORMATION:

TOXICOLOGICAL DATA:	On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms. Based on data from similar materials.
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PRODUCTIVE TOXICITY:	Has shown teratogenic effects in laboratory animals.
	Cancer Lists ---NTP Carcinogen---
	Ingredient Known Anticipated IARC Category
	Ethylene Glycol (107-21-1) No No None

ECOLOGICAL INFORMATION:

ENVIRONMENTAL FATE:	When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. When released into water, this material is not expected to evaporate significantly. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life between 1 and 10 days.
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ENVIRONMENTAL TOXICITY:	The LC50/96-hours values for fish are over 100 mg/l.
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DISPOSAL CONSIDERATIONS:

DISPOSAL CONSIDERATIONS:	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
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TRANSPORT INFORMATION:

TRANSPORT:	Not regulated
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REGULATORY INFORMATION:

WHMIS:	This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.
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PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Blue clear oily liquid
ODOR:	Odorless
SOLUBILITY:	Miscible in water.
SPECIFIC GRAVITY:	1.125@20C/4C
pH:	8.0 – 10.0
BOILING POINT:	175°C (347°F)
MELTING POINT:	-18°C (0.4°F)

MATERIAL SAFETY DATA SHEET (CONT)

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VAPOR DENSITY (AIR=1):	2.14
VAPOR PRESSURE (MMHG):	0.06@20C (68F)
EVAPORATION RATE (BUAc=1):	No information found
OTHER INFORMATION:	
LABEL HAZARD WARNING:	WARNING! HARMFUL OR FATAL IF SWALLOWED, HARMFUL, IF INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS CENTRAL NERVOUS SYSTEM.
LABEL PRECAUTIONS:	Do not breathe vapor or mist. Use only with adequate ventilation. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
LABEL FIRST AID:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush skin or eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops or persists. If swallowed, give water or milk to drink and induce vomiting. Never give anything by mouth to an unconscious person. In all cases call a physician.
CREATION DATE:	08/21/2007

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