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penreco.

Penreco® Drakeol® LT Mineral Oil N.F.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Penreco® Drakeol® LT Mineral Oil N.F.

MSDS Code:

776510

Synonyms:

Penreco® Drakeol® 100G, 100

Penreco® Drakeol® 5, 5A., 6, 6LP, 6VR, 7, 7A, 7PG, 8, 9, 10, 10B, 10C, 13, 15, GD-LP, GD-

Med., 70HP, 75HP, 90HP, 100HP Peneteck® and Drakesol® 260-AT

Draketex 50

intended Use:

General White Oil

Responsible Party:

Penreco

8701 New Trails Dr. Suite 175 The Woodlands, TX 77381

Customer Service:

800-245-3952 www.penreco.com

Technical Information:

800-245-3952

MSDS Information:

Internet: http://w3.conocophillips.com/NetMSDS/

Emergency Telephone Numbers:

Chemtrec: 800-424-9300 (24 Hours)

California Poison Control System: 800-356-3219

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING! Aspiration Hazard

000

NFPA

Appearance: Transparent / water white

Physical Form: Liquid Odor: Odorless

Potential Health Effects

Eye: Not known to be an eye irritant.

Skin: Not known to be a skin irritant. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): Expected to have a low degree of toxicity by inhalation.

Ingestion (Swallowing): No harmful effects reported from ingestion. ASPIRATION HAZARD - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.

Signs and Symptoms: Effects of overexposure may include irritation of the respiratory tract, irritation of the digestive tract, diarrhea.

See Section 11 for additional Toxicity Information.

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Component White Mineral Oil			
Maita Minara Oil	ANGEL ACTION AND ANGEL TO CACHE MANAGE TO CACHE AND ANGEL TO CACHE A	C C	oncentration (wt %)
vvriite iviinerai Oli	8042-47-5		
			100

4 FIRST ALDIMEASURES

Eye: If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: First aid is not normally required. However, it is good practice to wash any chemical from the skin.

Inhalation (Breathing): First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air. Seek immediate medical attention.

Ingestion (Swallowing): Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended and observe closely for adequacy of breathing. Seek medical attention.

Notes to Physician: Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5V FIRE GRAINGIMEASURES AND ME

NFPA 704 Hazard Class

Health: 0 Flammability: 1

Instability: 0

(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire. Vapors are heavier than air and can accumulate in low areas.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

Personal precautions: This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release.

Spill precautions: Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8).

Environmental precautions: Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material

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Methods for cleaning up: Immediate cleanup of any spill is recommended. Notify fire authorities and appropriate federal, state, and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

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Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, soider, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or other contemplated operations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8 EXPOSURE CONTROLS / RERSONAL PROTECTION () CONTROL OF THE CONTR

Alexa Component size	(A(O(S)))	SECURITIES OSHARISAN	Other:
White Mineral Oil	TWA: 5 mg/m³ STEL: 10 mg/m³ As Oil Mist, If Generated	TWA: 5 mg/m³ As Oil Mist, If Generated	

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits additional engineering controls may be required.

Personal Protective Equipment (PPE):

Eye/Face: While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

Skin: Not required based on the hazards of the material. However, it is considered good practice to wear gloves when handling chemicals.

Respiratory: A NIOSH certified air purifying respirator with an organic vapor cartridge in combination with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9: PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

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Appearance: Physical Form:

Odor:

Odor Threshold:

pH:

Vapor Pressure:

Vapor Density (air=1): Boiling Point/Range: Melting/Freezing Point:

Solubility in Water:

Partition Coefficient (n-octanol/water) (Kow):

Specific Gravity:

Evaporation Rate (nBuAc=1):

Flash Point: Test Method: LEL (vol % in air):

UEL (vol % in air): Autoignition Temperature: Transparent / water white

Liquid
Odorless
No data
Not applicable
<0.1mm Hg

>520°F / >271°C

No data Negligible No data

0.81-0.87 @ 60°F (15.6°C)

<1

>1

>280°F / >138°C

Cleveland Open Cup (COC), ASTM D92

AND THE PARTY OF

No data No data No data

10 STABILITY AND REACTIVITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: Avoid high temperatures and all sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon dioxide, carbon monoxide and other oxides.

Hazardous Polymerization: Will not occur.

Acute Data:

Component ***********************************	Ordine Dispersion	Dermai LD50.	and the second	**************************************
White Mineral Oil	>5 g/kg (rat)	>2 g/kg	į	>5 mg/l (rat)

12. ECOLOGICALINEORMATION

Not evaluated.

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The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

Container contents should be completely used and containers should be emptied prior to discard.

14 PRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)

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14 TRANSPORTATION INFORMATION

Shipping Description:

Not requiated

Note:

If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

International Maritime Dangerous Goods (IMDG)

Shipping Description:

Not regulated

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #:

Not regulated

	LTD. QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:		_	
Max. Net Qty. Per Package:		<u> </u>	

15: REGULATIORY/INFORMATION AND AND A

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health: Chronic Health: No Fire Hazard: No Pressure Hazard: No

Reactive Hazard:

No

CERCLA/SARA - Section 313 and 40 CFR 372:

This material does not contain any chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372.

EPA (CERCLA) Reportable Quantity (in pounds):

This material does not contain any chemicals with CERCLA Reportable Quantities.

California Proposition 65:

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

Canadian Regulations:

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

WHMIS Hazard Class

None

National Chemical Inventories:

Components was a supplemental of the components	#WAICS ##	BADSUA	MENDS SHIP CHINA	&ELINCS#	EINECS#	ENCS	KORFAN	MPICCON	TOPA
White Mineral Oil	Х	Х	Х		Х	1 X	X	X	Y
8042-47-5	L						^	^	. ^

Legend: AICS - Australia Inventory of Chemical Substances, DSL - Domestic Substances List (Canada), NDSL - Non-Domestic Substances List (Canada), CHINA - Inventory List, ELINCS - EU List of Notified Chemical Substances, EINECS - European Inventory of Existing Commercial Chemical Substances, ENCS - Japan Existing and New Chemical Substances, KOREA - Existing and Evaluated Chemical Substances, PICCS - Philippines Inventory of Chemicals and Chemical Substances, TSCA - United States Section 8(b) Inventory

U.S. Export Control Classification Number: EAR99

16 OTHER INFORMATION

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16: OTHERINFORMATION

issue Date:

Status:

Previous Issue Date:

Product Code:

Revised Sections or Basis for Revision:

MSDS Code:

Final

01-Nov-2006 5040304

Format change

776510

MSDS Legend:

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service registry; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

Disclaimer of Expressed and implied Warranties:

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