Polaris Sales Inc. 2100 Highway 55 Medina, MN 55340 Emergency (24 hr):

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SECTION 1

CHEMICAL PRODUCT IDENTIFICATION

Product:

POLARIS 2T VES SYNTHETIC OIL

Synonyms/Other:

POLARIS VES 2-CYCLE SYNTHETIC LUBRICANT 2872924, 2872925, 2872927, 2873303, 2873918, 2874239,

Item Number(s):

MSDS Number: Product Type:

Two-stroke lubricant 02/20/2002

Preparation/Revision Date: Supercedes MSDS Date:

03/14/2001

SECTION 2

INGREDIENTS

COMPOSITION INFORMATION CAS#

OSHA

ACGIH OSHA

SKIN

Fully formulated synthetic engine oil*

Mixture

100

TWA 5 mg/m⁴ (PEL)

STEL TWA 5 mg/m³ 10 mg/m³ (TLV)

NQ

Comments:

* - Defined as non-hazardous according to 29 CFR1910.1200. Exposure guidelines are based upon limits defined for, "Oil Mist", due to similarities in

properties.

All base oils, including additive carriers, contain <3.0% DMSO extractable

material.

TWA – Time Weighted Average is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

STEL – Short Term Exposure Limit is the employee's 15-minute time weighted average exposure

which shall not be exceeded at any time during a work day unless another time limit is specified.

SECTION 3

HAZARDOUS IDENTIFICATION

WARNING:

- MAY CAUSE EYE IRRITATION

- MAY CAUSE SKIN IRRITATION

Eye contact: Skin contact: Direct contact may cause irritation, redness, tearing and blurred vision.

Avoid prolonged skin contact. This product contains materials that may cause skin irritation. Prolonged or repeated contact may result in dermatitis (dryness,

chapping and reddening of skin).

Inhalation:

Overexposure by inhalation of hot material may cause nonspecific discomfort,

such as nausea, headache, or weakness. Caution should be taken to prevent aerosolization or misting of this product without proper respiratory protection.

ingestion:

Do not ingest. Product is expected to be relatively non-toxic unless lung aspiration occurs Aspiration is not expected with this material due to material's viscosity. Should aspiration occur, may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of

lung involvement include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. This product has laxative properties and may result in

abdominal cramps and diarrhea.

Other:

Not applicable.

SECTION 4

FIRST AID MEASURES

Eye contact:

Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. If irritation persists seek medical

attention.

Remove contaminated clothing. Wash contaminated area thoroughly with soap Skin contact:

If redness or irritation occurs, seek medical attention. and water.

contaminated clothing before reuse.

Inhalation: If overcome by inhalation of hot or misted vapors, remove to fresh air. Use

oxygen if there is difficulty breathing or artificial respiration if breathing has stopped. Do not leave victim unattended. Seek Immediate medical attention if

necessary.

Do not induce vomiting because of danger of aspirating liquid into lungs, Ingestion: causing serious damage and chemical pneumonitis. If spontaneous vomiting

occurs keep head below hips to prevent aspiration and monitor for breathing difficulty. Gastric lavage should be performed only by qualified medical personnel. Keep affected person warm and at rest. Seek immediate medical

attention.

Other:

SECTION 5

FIRE FIGHTING MEASURES

Flash point:

Flammable limits: Extinguishing media:

140°C (264°F) typical by Pensky-Martens Closed Cup Tester.

Not applicable.

Use water spray, dry chemical, alcohol foam, all purpose AFFF or carbon

dioxide to extinguish fire.

Special firefighting procedures:

Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect

personnel attempting to stop a leak.

Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual fire & explosion hazards:

Dense smoke may be generated while burning. Toxic fumes, gases or vapors

may evolve on burning. Heavy flammable vapors may settle along ground level and low spots to create an invisible fire hazard. The vapors may extend to sources of ignition and flash back.

Byproducts of

combustion:

Fires involving this product may release oxides of carbon, nitrogen and sulfur;

reactive hydrocarbons and irritating vapors.

Autoignition

temperature: Not determined.

Explosion data: Other:

Not determined. Care should always be exercised in dust/mist areas.

Not applicable.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Spill control procedures (land):

Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with Inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. If a large spill occurs notify appropriate authorities.

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Spill control procedures (water):

Remove from surface by skimming or with suitable adsorbents. If a large spill occurs notify appropriate authorities (normally the National Response Center or

Coast Guard).

Waste disposal

method:

Most oil based products are incinerated, land-filled or reclaimed. All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this

material when spilled. See Section 14.

CAUTION - If spilled material is cleaned up using a regulated solvent, the

resulting waste mixture will be regulated.

Other:

SECTION 7

HANDLING AND STORAGE

Handling procedures:

Keep containers closed when not in use. Do not transfer to unmarked containers. Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106 -- Flammable and Combustible Liquids. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

For handling hot/heated material, wear proper insulated protective equipment to

prevent risk of oil burns.

Storage procedures:

Do not store product in excess of 49°C (120°F). Store containers away from

heat, sparks, open flame, or oxidizing materials.

Do not store containers outside due to temperature fluctuations - risk of drawing water into product through container seals due to cap and fluid expansion and

contractions.

Additional information:

No additional information.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection:

Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/splil control personnel.

Respiratory protection:

None required if airborne encentrations are maintained below threshold limits ilsted on page one. Otherwise a respiratory protection program meeting OSHA 1910.134 and ANSI Z68.2 requirements must be followed. Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form

dust/mist air purifying respirator.

Eye protection is strongly recommended. If material is handled such that it Eye protection:

could be splashed into the eyes, wear safety glasses with side shields or

vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

Hand protection:

impervious gloves such as neoprene or nitrile rubber to evold skin sensitization and absorption. For handling hot material, wear impervious insulated gloves

and keep all skin areas covered.

Other protection:

Use of an apron and overboots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization and absorption. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.

Local control

measures:

Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure, Eyewash stations and showers should be available in areas where this material is used and stored.

Other:

Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating,

Polaris VES 2 Cycle Oil (0125) Page 3 of 6

drinking or smoking.

PHYSICAL AND CHEMICAL PROPERTIES SECTION 9

<0.1 mmHg at 20°C (68°F). Vapor pressure: 25.7° at 15.6°C (60.0°F) API gravity: 7.5 lbs/gal at 15.6°C (60.0°F). Density:

Specific gravity: 0.90 at 15.6°C (60.0°F).

Negligible in water, miscible in most petroleum solvents. Solubility:

Percent volatile: Not determined.

Vapor density (air=1):

Evaporation rate

Not determined. (n-Butyl Acetate=1):

Mild, aromatic petroleum odor. Pale to dark orange, thin fluid. Appearance: 9.3 cSt at 100°C (212°F). Viscosity: **Boiling point:** Not determined. Pour/Freeze point: -46°C (-51°F) typical.

SECTION 10

Other:

STABILITY AND REACTIVITY

Stability: Conditions to avoid:

Incompatibility with other materials:

Decomposition products:

Material is stable at room temperatures and pressure. Avoid high temperatures and product contamination.

Avoid contact with acids and oxidizing materials.

Smoke, carbon monoxide and dioxide, and other aldehydes of incomplete combustion. Oxides of carbon, nitrogen and sulfur; reactive hydrocarbons and

imitating vapors.

Not applicable.

Hazardous

polymerization: Other:

Will not occur. Not applicable.

SECTION 11

TOXICOLOGICAL INFORMATION

Not determined. Oral toxicity: Dermal toxicity: Not determined.

Inhalation toxicity: 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 asymptotic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms. Based on data from similar materials. Prolonged or repeated contact may make skin more sensitive to other skin

Dermal sensitization: sensitizers. Based on data from similar materials.

Not determined. Chronic toxicity:

The known components of this material are not listed by IARC, NTP, OSHA or Carcinogenicity:

ACGIH as known or suspected carcinogens. Not determined.

Mutagenicity:

Reproductive toxicity:

Not determined.

These products may contain petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils require a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

SECTION 12

ECOLOGICAL INFORMATION

Environmental toxicity:

This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.

Polaris VES 2 Cycle Oil (0125). Page 4 of 6

Environmental fate:

Not determined.

Other:

Not applicable.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. This product unadulterated by other materials may be classified as a non-regulated waste in some areas - but still needs to be disposed of at approved facilities. Waste management should be in full compliance with federal, state, and local laws.

Disposal consideration:

Most used and non-use oils are inclinerated by licensed burner facilities for heat value, or reclaimed by oil recycling services. Look in a local telephone directory or internet for headings under, 'Waste', 'Waste Services', 'Waste Disposal' for companies licensed to handle such material. Additional information can be obtained from local EPA, DNR, Sewer and Land-Fill sites. Unused, packaged fluids may be donated to other companies or charities (fluids MUST be unused).

Other:

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can only occur in properly permitted facilities. Check state and local regulations for any additional regulatements as these may be more restrictive that nederal laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Disposal of this material must be conducted in compliance with all federal, state, and local

regulations.

SECTION 14

TRANSPORT INFORMATION

U.S. DOT shipping

description: U.S. DOT identification

number: U.S. BOT hazard

classification: Packaging class: Not applicable.

Not DOT regulated

Not applicable.

Not applicable.

SECTION 15

Other:

REGULATORY INFORMATION

Clean water act/oil

pollution act:

Under Section 311 of the Clean Water Act (40 CFR 110) and the Oil Pollution Control Act of 1990, this material is considered an oil. Any spill or discharges that produce a visible sheen or film on surface of water, or in waterways, ditches, or sewers leading to surface water must be reported. Contact the National Response Center at 800-424-8602.

TSCA:

All components of this material are listed in the U.S. TSCA Inventory.

Other TSCA: SARA Title III:

Not applicable. Section 302/304 extremely hazardous substances:

This product does not contain greater than 0.1% of any chemical substance

listed under Sections 302/304.

Section 311, 312 hazard categorization:

Acute (immediate health effects):
Chronic (delayed health effects):
Fire (hazard):
Reactivity (hazard):
Pressure (sudden release hazard):
NO

Section 313 toxic chemicals:

This product does not contain any known components at or greater than

deminimis (reportable) quantities under Section 313.

CERCLA:

For stationary/moving sources - reportable quantity (due to):

Exempt due to petroleum exclusion.

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Other:

A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) by the petroleum exclusion. However, releases may be reportable to the Nation Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15 Failure to report may result in substantial civil and criminal penalties.

Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

SECTION 16	OTHER INFORMATION		
HEALTH: FIRE: REACTIVITY: SPECIFIC HAZARD: PROTECTION INDEX:	NFPA 704 1 1 0 NONE N/A	NPCA-HMIS 1 1 0 N/A B	KEY 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Precautionary labels:	- MAY CAUSE EYE IRRITATION - MAY CAUSE SKIN IRRITATION		
External information:	This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used. Polaris must rely upon information provided by those materials manufacturers or distributors.		
Creation date: File: Version:	03/14/2001 Polaris 2T VES Synthetic Oil (III	(0125)	

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Revisions / Comments:

Revision: MSDS format i (02/01/2001)