

# Polaris Material Safety Data Sheet

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Emergency: 800-424-9300  
Information: 763-542-0500

## SECTION 1 CHEMICAL PRODUCT IDENTIFICATION

**Product:** POLARIS FOAM FILTER OIL  
**Synonyms/Other:** Not applicable  
**MSDS Number:** 2177  
**Product Type:** Solvent based filter cleaner  
**Preparation/Revision Date:** 8/4/2010

## SECTION 2 COMPOSITION INFORMATION

INGREDIENTS	CAS #	%	OSHA TWA	OSHA STEL	ACGIH TWA	SKIN
Mineral oil, paraffinic	8042-47-5	--	Not specified	Not specified	Not specified	NO
Naptha, hydrogenated, light,	64742-49-0	--	Not specified	Not specified	Not specified	NO

**Comments:** Not applicable.  
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:**

- HIGHLY FLAMMABLE
- HARMFUL IF SWALLOWED
- IRRITATING TO SKIN

**Eye contact:** Direct contact may cause irritation, redness, tearing and blurred vision.  
**Skin contact:** 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 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 or adequate ventilation.

This material contains petroleum solvents. Prolonged or repeated occupational overexposure to solvents has been linked to permanent brain and nervous system damage. Intentional misuse by deliberate concentration and inhalation may be harmful or fatal.

**Ingestion:** In normal use ingestion is not a primary hazard. However, do not ingest. Product is expected to be relatively non-toxic unless lung aspiration occurs. Aspiration hazard is not expected due to material's heavy 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-

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	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. If material is hot, treat for thermal burns and take victim to hospital immediately.
<b>Skin contact:</b>	Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. Wash clothing before reuse.
<b>Inhalation:</b>	If overcome by inhalation of 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.
<b>Ingestion:</b>	Do not induce vomiting unless directed by a physician. During vomiting there is a danger of aspirating liquid into lungs, 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 medical attention.
<b>Other:</b>	Not applicable.

## SECTION 5 FIRE FIGHTING MEASURES

<b>Flash point:</b>	35 F (DIN 51755)
<b>Flammable limits:</b>	UEL 12.7% Volume LEL 0.7% Volume
<b>Extinguishing media:</b>	Foam, dry chemical, carbon dioxide, water spray or halon.
<b>Special firefighting procedures:</b>	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.
<b>Unusual fire &amp; explosion hazards:</b>	Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard.
<b>Byproducts of combustion:</b>	Fires involving this product may release oxides of carbon, nitrogen and sulfur; reactive hydrocarbons and irritating vapors.
<b>Autoignition temperature:</b>	Not determined.
<b>Explosion data:</b>	Not determined. Care should always be exercised in dust/mist areas.
<b>Other:</b>	Not applicable.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

<b>Spill control procedures (land):</b>	Broken containers collect into plastic trash bags. Fluid from leaking containers may be picked up using shovels or rags. Collected waste should be disposed of at licensed incinerators or land-fills. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).
<b>Spill control procedures (water):</b>	Try to contain material spills with floating booms to prevent spill from spreading. 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 at 800-424-8802).
<b>Waste disposal</b>	

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**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 Sections 13 and 14.

**Other:** CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will be regulated.

## 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.

**Storage procedures:** Store containers away from heat, sparks, open flame, or oxidizing materials. Product should not be stored above 45°C (113°F).

**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/spill control personnel.

**Respiratory protection:** Where misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form dust/mist air purifying respirator.

**Eye protection:** Eye protection is recommended. If material is handled such that it 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 avoid skin sensitization and absorption.

**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 explosion proof fume hoods or area fans may be used to reduce localized vapor/mist areas (>60 fpm). 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, drinking or smoking.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Vapor pressure:** 42 hPa (20°C)

**Specific gravity:** 0.81 at 20°C .

**Solubility:** Not soluble in water

**Percent volatile:** Not determined.

**Vapor density (air=1):** Not determined.

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

**Odor:** Solvent

**Appearance:** Thin blue liquid

**Viscosity:** < 3 mPa (20°C) (DIN 51562-1)

**Boiling point (IBP):** 179°C (DIN 53171)

**Pour/Freeze point:** Not determined.

**Other:** Not applicable.

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## SECTION 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Material is stable at room temperatures and pressure.
<b>Conditions to avoid:</b>	Avoid high temperatures and product contamination.
<b>Incompatibility with other materials:</b>	Avoid contact with acids and oxidizing materials.
<b>Decomposition products:</b>	Smoke, carbon monoxide and dioxide, and other aldehydes due to high temperatures or combustion. Oxides of carbon, nitrogen and sulfur; reactive hydrocarbons and irritating vapors.
<b>Hazardous polymerization:</b>	Will not occur.
<b>Other:</b>	Not applicable.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Oral toxicity:</b>	Not determined.
<b>Dermal toxicity:</b>	Not determined.
<b>Inhalation toxicity:</b>	Prolonged or repeated occupational overexposure to solvents has been linked to permanent brain and nervous system damage. Intentional misuse by deliberate concentration and inhalation may be harmful or fatal. Minimize exposure.
<b>Dermal sensitization:</b>	Prolonged or repeated contact may make skin more sensitive to other skin sensitizers. Based on data from similar materials.
<b>Chronic toxicity:</b>	Not determined.
<b>Carcinogenicity:</b>	Components of this material are not listed by IARC, NTP, OSHA or ACGIH as known or suspected carcinogens.
<b>Mutagenicity:</b>	Not determined.
<b>Reproductive toxicity:</b>	Not determined.
<b>Other:</b>	Not applicable.

## SECTION 12 ECOLOGICAL INFORMATION

<b>Environmental toxicity:</b>	This material may be toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water.
<b>Environmental fate:</b>	Not determined.
<b>Other:</b>	Not applicable.

## SECTION 13 DISPOSAL CONSIDERATIONS

<b>Waste disposal:</b>	Discharge aerosols into suitable containers to relieve container pressure before disposing of container in general trash. Check with other parties before throwing unused materials away. Emptied containers typically may be disposed of in general trash receptacles, but verify with local authorities if there is any doubt.  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.
<b>Disposal consideration:</b>	Most used and non-use oils and solvents are incinerated 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).
<b>Other:</b>	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

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regulations for any additional requirements as these may be more restrictive than federal 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:** Consumer commodity.  
**U.S. DOT identification number:** None assigned.  
**U.S. DOT hazard classification:** ORM-D. Carton must bear ORM-D marking and orientation arrows.  
**Packaging class:** II.  
**Other:** IMO/IATA ID Number: UN1950 / UN1950.  
 IMO/IATA Hazard Class: 2.1 / 2.1.  
 IMO Shipping Name: AEROSOLS.  
 IATA Shipping Name: Aerosols, flammable, n.o.s. (Kerosene).  
 IMO/IATA Precautionary Label: AEROSOLS statement / Flammable Gas diamond.  
 IMO/IATA Packing Group: II / None assigned.  
 IMO Page Number: 2102.  
 Marine Pollutant: No.

See 49 CFR for additional requirements for descriptions, allowed modes of transport, and packaging. For more information concerning spills during transport, consult latest DOT Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

## SECTION 15 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 800-424-8802.

**TSCA:** All components of this material are listed in the U.S. TSCA Inventory.  
**Other TSCA:** Not applicable.  
**SARA Title III:** Section 302/304 extremely hazardous substances:  
 There are no known components present from Section 302/304.  
 Section 311, 312 hazard categorization:  
 Acute (immediate health effects): YES  
 Chronic (delayed health effects): NO  
 Fire (hazard): YES  
 Reactivity (hazard): NO  
 Pressure (sudden release hazard): NO  
 Section 313 toxic chemicals:  
 Not applicable

**CERCLA:** For stationary/moving sources – reportable quantity (due to):  
 Not applicable.

**Other:** Not applicable

## SECTION 16 OTHER INFORMATION

	NFPA 704	NPCA-HMIS	KEY
<b>HEALTH:</b>	1	2	0 = Minimal
<b>FIRE:</b>	3	3	1 = Slight
<b>REACTIVITY:</b>	0	0	2 = Moderate
<b>SPECIFIC HAZARD:</b>	NONE	N/A	3 = Serious

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**PROTECTION INDEX:** N/A B 4 = Severe

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: 04/07/2008  
File: Polaris Foam Filter Oil (2177)  
Version: II

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**Revisions / Comments:**

Section 1: removed part numbers and updated revision date 8/4/2010