

MATERIAL SAFETY DATA SHEET

MSDS Name: Tamms Formshield VOC
Product Code: TSFVOC
Suffix Number 0001
MSDS Revision Date: 03-27-02
Page Number: 1 of 5

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: Tamms Formshield VOC
CAS Number: N/A - Mixture
Hazard Rating: Health: 2 Fire: 2 Reactivity: 0 PPI: _____

Tamms Industries Division
State Route 72 West
Kirkland
IL 60146

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CHEMTREC (24 Hour): 800-424-9300

Product Class: Form release compound
Trade Name: Tamms Formshield VOC
Product Code: TSFVOC

SECTION 2 - HAZARDOUS INGREDIENTS

Ingredient Name	CAS Number	Percent	TSCA
Petroleum distillate HMIS Health: 2 Fire: 2	Complex mixture Reactivity: 0	30 - 60 PPI: _____	Y

Additional Comments:

This ingredient is considered to be a hazardous product under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Its hazards are:
Combustible hazard.
Delayed (Chronic) health hazard.

SECTION 3 - PHYSICAL DATA

Form: Liquid
Appearance/Color: Amber
Odor: Petroleum odor
pH Value: Not Available
Boiling Range/Point: 340°F - 675°F
Vapor Pressure (mmHg): N/E
Evaporation Rate: Non Volatile
Vapor Density: Heavier than air
% Volatile: Approximately 45.%
Specific Gravity: 0.82036
VOC: <400 g/l

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SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flammability Class	II
Flash Range/Point:	120. °F
	Tag Closed Cup
Explosive Range:	N/D

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide or foam is recommended. Water spray is recommended to cool or protect exposed containers, materials or structures. Water may be ineffective for extinguishment unless used under favorable conditions by experienced firefighters. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

SPECIAL FIREFIGHTING PROCEDURES:

Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate danger area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. 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.

UNUSUAL FIRE & EXPLOSION HAZARDS:

This material is flammable (or combustible per 49 CFR 173.120 (b)(2)) and may be ignited by heat, sparks, flames, or other sources of ignition, (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors may travel considerable distances to a source of ignition where they can ignite, flashback, or explode. May create vapor/air explosion hazard indoors, outdoors, or in sewers. Vapors are heavier than air and can accumulate in low areas. If container is not properly cooled, it can explode in the heat of a fire. CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty container may explode.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

Eyes: This material may cause mild eye irritation. Direct contact with the liquid or exposure to vapors or mists may cause stinging, watering and redness.

Skin: Occasional skin contact with this product is not expected to have serious effects, but good personal hygiene should be practiced and repeated skin contact avoided. This product can also be expected to produce skin irritation upon prolonged or repeated skin contact.

Breathing: Overexposure to mists created by high temperatures or mechanical agitation may produce respiratory irritation. Expected to have low degree of toxicity by inhalation.

Swallowing: Aspiration hazard! This material can enter the lungs during swallowing or vomiting and cause lung inflammation and pneumonia. Expected to have low degree of toxicity by absorption through digestive system.

FIRST AID:

Eyes: Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the eyes with clean water for at least 15 minutes. Seek medical attention.

Skin: Remove contaminated shoes and clothing. Wash the affected area gently and thoroughly with running water and non-abrasive soap. If irritation or redness develops, seek medical attention.

Breathing: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties should develop, oxygen should be administered by qualified personnel, Seek immediate medical attention.

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, place on the left side with the head down. If possible, do not leave victim unattended, Seek medical attention.

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SECTION 6 - REACTIVITY DATA

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY

Avoid contact with strong oxidizing and reducing agents.

CONDITIONS TO AVOID:

Keep away from heat, sparks and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion can yield carbon monoxide and carbon dioxide, smoke and irritating fumes.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Keep all sources of ignition and hot metal surfaces away from spill/release. Use non-sparking tools and explosion-proof equipment. Stay upwind and away from spill/release. Isolate danger 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. Prevent spilled material from entering sewers, drains, and natural waterways. Dike far ahead of spill for later recovery or disposal. Use foam on spills to minimize vapors. Spilled material may be absorbed into an appropriate absorbent material. Notify fire authorities and appropriate federal, state and local agencies. Immediate cleanup of any spill *is* recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (800/424-8802)

WASTE DISPOSAL METHOD:

Recovered material should be packaged, labeled, transported, disposed of or reclaimed in compliance with applicable laws and regulations and in conformance with good safety and engineering practices.

This material, if discarded as produced, is not a RCRA "listed" waste. However, it should be fully characterized for toxicity prior to disposal per 29 CFR 261. Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Petroleum distillate	N/est	N/est	N/est	N/est	N/est

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SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

PERMISSIBLE EXPOSURE LEVEL:

No exposure limit established for product.

For oil mists, OSHA and ACGIH recommend a TLV of 5mg/m³, 8 hour TWA. For solvent vapors or mists, ACGIH recommends a TLV of 100 ppm per 8 hour day,

RESPIRATORY PROTECTION:

A NIOSH approved air purifying respirator with an organic vapor cartridge may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. 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. Adhere to 29 CFR 1910.134 whenever workplace conditions warrant the use of a respirator.

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV.

PROTECTIVE GLOVES:

Chemical/solvent resistant for prolonged contact.

EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulations are advised (see your safety equipment supplier).

OTHER PROTECTIVE EQUIPMENT:

Boots, aprons, chemical resistant suits where deemed necessary to avoid contact during prolonged exposure.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, 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 re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as 29 CFR 1910.146. The use of respiratory protection is advised when concentrations exceed any established exposure limits (see section 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

Keep containers 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 6). Protect containers from physical damage.

OTHER PRECAUTIONS:

Employees must practice good personal hygiene, washing exposed skin several times daily and laundering contaminated clothing before reuse.

ADDITIONAL COMMENTS:

DOT Hazard Classification: 3

DOT Shipping Name: Petroleum distillates, n.o.s.
Combustible liquid

DOT I.D. No: UN 1268

Packing Group: III

ERG #128

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SECTION 9 - SPECIAL PRECAUTIONS (CONTINUED)

In accordance with 49 CFR 173.150 (f)(2), non-bulk quantities of this material (less than 119 gallons per container) may be shipped as non-regulated for USA domestic shipments.

The information presented herein is believed to be factual. It has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a legal warranty or representation for which the manufacturer bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine if they are appropriate.

SECTION 10 - ADDITIONAL REGULATORY INFORMATION

GLOSSARY

N/AV = Not Available; N/A = Not Applicable; N/D = Not Determined

N/E = Not Established, N/est = Not established
