



MATERIAL SAFETY DATA SHEET

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P-TFS

CHEMICAL CODE: P-TFS
PRODUCT NAME: TURBULENT FLOW SPACER
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EFFECTIVE DATE: SEPTEMBER 26, 1988

NFPA RATING:

Health Hazard: 2 Flammability: 1 Reactivity: 0 Other: None

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Nominal Composition:

CAS Number

PROPRIETARY BLEND OF ORGANIC POLYMERS

SECTION 1 - PHYSICAL DATA

CHEMICAL NATURE:	Salt	FORM:	Solid
COLOR:	White	ODOR:	Odorless
VAP DENSITY (air=1):	Not determined	% SOL. IN WATER :	Partial
pH:	7-8 at 1 percent	SP. GRAVITY:	Not determined
POUR PT:	Not determined	BOILING POINT:	Not determined
VAP. PRESSURE:	Not determined	WT% VOLATILE:	> 8

SECTION 2 - FIRE AND EXPLOSION HAZARD DATA

CHARACTERISTIC: Will burn at high temperatures.

FLASH POINT: > 200 deg F > 93 deg C **METHOD USED:** Comparison.

FLAMMABLE LIMITS (STP IN AIR) LFL: Not determined UFL: Not determined

EXTINGUISHING MEDIA: Water Fog, Alcohol Foam, Co2, Dry Chemical

SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas. Slick when wet.



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SECTION 3 - REACTIVITY HAZARDS

STABILITY: Stable

INCOMPATIBILITY: Oxidizers.

HAZARDOUS DECOMPOSITION: When heated strongly or burned, oxides of carbon, sulfur oxides and harmful organic chemical fumes are released.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 4 - FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with water for 15 minutes while holding eyelids open. See a doctor at once.

SKIN CONTACT: Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.

SWALLOWING: If several grams are swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult a physician.

INHALATION: Remove to fresh air. See a doctor if effects occur.

NOTES: None.

SECTION 5 - HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT CODE: Q6

VENTILATION: General ventilation to control.

RESPIRATORY PROTECTION: Use NIOSH approved respirator with dust and mist protection (3M No. 8710).

PROTECTIVE CLOTHING: Clean, body- covering clothing and cotton gloves.

EYE PROTECTION: Chemical goggles required and an eye wash in work area.

EXPOSURE GUIDELINE(S): TLV are 0.1 mg/m³ for respirable fraction for silica (quartz) and 10 mg/m³ for total dust (ACGIH). OEL is 10 mg/m³ for total dust (OSHA).



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SECTION 6 - SPILL AND DISPOSAL PROCEDURE

CERCLA REPORTABLE QUANTITY: Not established.

SPECIAL HANDLING: Scoop into containers. Avoid generating dust. Use water carefully; slick when wet.

DISPOSAL METHOD FOR:

PRODUCT: Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.

EPA HAZARDOUS WASTE NUMBER: None

CONTAINER: Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and send to sanitary landfill.

DEGRADABILITY: Not biodegradable.

FISH TOXICITY: Low toxicity to fish. LC50=5500 ppm.

ANIMAL TOXICITY: Low toxicity to mammals.

SECTION 7 - TOXICOLOGY (ROUTES OF EXPOSURE)

PRINCIPAL HAZARD (E=Eye, S=Skin, I=Inhal.): E

EYE CONTACT: Irritant. May cause pain, redness, discomfort.

SKIN CONTACT: No effect expected. Prolonged or repeated contact may cause mild irritation.

SWALLOWING: No effect expected. Swallowing large amounts may cause illness, nausea and laxative effects.

INHALATION: Repeated exposure may cause silicosis. Nuisance dust.

OTHER: Prolonged overexposure may affect liver and kidneys. Crystalline silica is listed by IARC as suspected of causing cancer in humans.



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SECTION 8 - SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS: None.

PHYSICAL HAZARD: Dust, water slick.

HANDLING AND STORAGE PRECAUTIONS: Avoid wetting spilled material. Avoid generating dust.

PACKAGING INFORMATION: Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.

ADDITIONAL INFORMATION: None

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Petrochem USA, Inc. regarding the accuracy or completeness of the information.



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SHIPPING INFORMATION

ID NUMBER (UN # OR NA #):

FLASH PT. > 200 deg F, > 93 deg C

BOILING PT. Not determined

ICC TARIFF CLASSIFICATION: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640

ICC Class: 50 LTL TL

DEPARTMENT OF TRANSPORTATION - DOT

Description: Not Regulated

Hazard Class: Not Regulated

Shipping Name: Non Regulated

DOT Label:

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US FOREIGN TRADE SCHEDULE B# (EXPORT): 492. 1840

CANADIAN SHIPMENTS -

Shipping name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

WATER SHIPMENT (IMO)

Shipping Name: Not a Dangerous Good

Label(s):

Class:

Pkg Group:

IMDG Page:

MARPOL:

AIR SHIPMENTS (IATA)

Shipping Name: Not a Dangerous Good

Label(s)

Class:

Sub Risk:

Pkg Group:

Passenger Aircraft Pkg. Instr.

Max. Net Qty./Pkg.

Cargo Aircraft Only Pkg. Instr

Max. Net Qty./Pkg.

EUROPEAN ECONOMIC COMMUNITY (EEC)

Risk Phrases:

Safety Phrases:

Classification (Label):

Label Description:

ADR Class:

RID Class:

TREM Card:

Hazard Classification:

Comment: