

 <b>Marathon Petroleum Company LP</b>		REFINERY-WIDE		R-14-010
ANACORTES REFINERY		Safety Precautions in Handling of PTFE or “Teflon”		Page 1 of 3
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## 1.0 INTRODUCTION

### 1.1 Purpose

The purpose of this document is to provide guidance and define the requirements for the safe use and correct industrial hygiene practices necessary for control of the potential hazards associated with handling, using, and machining Teflon products. The guidance and requirements here should not be considered all inclusive. Please consult the product label for other applicable regulations.

## 2.0 REFERENCES

### 2.1 Government Regulations

- EPA-HQ-OPPT-2003-0012-0001

### 2.2 Industry Standards

- DuPont SDS

## 3.0 DEFINITIONS

The following definitions are applicable to this procedure.

**Table 1 Acronyms**

Term	Description
Perfluorocarbon	Any of various hydrocarbon derivatives in which all hydrogen atoms have been replaced with fluorine and that include blood substitutes used in emulsified form
Teflon	Teflon is the Dupont trademarked version of PTFE (polytetrafluoroethylene) resin

## 4.0 GENERAL INFORMATION

Teflon is the Dupont trademarked version of PTFE (polytetrafluoroethylene) resin. Teflon is non-toxic and non-irritating to the skin. High speed machining or grinding of metal parts coated with Teflon may cause localized heating sufficient to liberate toxic compounds from the coating. It has excellent heat stability in the range of -450°F to +500°F and has a melting point of 620°F. Heated above 400°F, small quantities of toxic compounds are given off, but it does not depolymerize rapidly until the temperature exceeds 735°F. At temperatures above 735°F Teflon decomposes liberating toxic Hydrogen Fluoride and Perfluorocarbon olefins.

The following safety and industrial hygiene practices are felt to be necessary for control of potential hazards in handling, using, and machining Teflon:

- Proper education of personnel working with Teflon.
- Do not carry tobacco into areas where it could become contaminated with Teflon dust.

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- When machining or sawing of Teflon at high speeds (above 3,000 rpm) or grinding of materials coated with Teflon, water-cooling is advisable and exhaust ventilation should be provided.
- Hands should be washed prior to tobacco use or eating.
- Do not weld or burn on surfaces that have Teflon or Teflon residue on them until they have been cleaned to bare metal.
- Teflon is an insulator and should not be used where electrical continuity is required to prevent static discharge.
- Teflon tape is not an approved pipe thread compound for general piping. Teflon tape shall not be used on instrument air piping and tubing connections. For further information about Teflon, refer to MSDS000080006524.

## 5.0 TRAINING

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Training on this procedure is required upon initial hire at the Marathon Anacortes Refinery.

## 6.0 REVIEW AND REVISION HISTORY

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Revision #	Preparer	Date	Description
0	Mark Willand	10/17/2021	Reformatted and Numbered per Document Control Policy, R-63-001.
1	Brady Emmons	4/19/22	Line-by-line review.