



Central Pierce Fire & Rescue

Pierce County Fire District No. 6

17520 – 22nd Avenue East Tacoma, WA 98445

(253) 538-6402 (253) 538-6486 Fax

www.centralpiercefirerescue.org

Revised 1-9-2013

The City of Puyallup requires a listing of chemicals and quantities from businesses. This information is necessary to compute fees for an annual Hazardous Materials Permit as required by the International Fire Code. Businesses will need to report quantities for the following chemical hazard classifications that are in storage or use:

- All compressed gases i.e. oxygen > 504 cu ft, flammable gases > 200 cu ft and inert gases > 6,000 cubic feet.
- All cryogenic fluids.
- Report quantities of corrosive gases > 200 cu ft, corrosive liquids > 54 gallons and corrosive solids > 999 pounds.
- All explosives
- Class I flammable liquids greater than 5 gallons indoors/ 10 gallons outdoors.
- Class II or IIIA combustible liquids greater than 25 gallons indoors/60 gallons outdoors.
- All highly toxic materials in gas, liquid and solid form.
- All *toxic* gases, all *toxic* liquids greater than 10 gallons, all *toxic* solids greater than 99 pounds.
- All chemicals with a health hazards rating of a 3 or 4 as per the NFPA 704 placard system. See the MSDS.
- All oxidizing materials in gas, liquid and solid form.
- All organic peroxides.
- All pyrophoric materials.
- All unstable reactive materials.
- All water reactive materials.
- All Level 2 and 3 aerosols in excess of **500 pounds**, net weight.

Please note that I need the maximum quantity that would be onsite at any one time, ***not totals for the year***. **Provide a total each category of solids, liquids and cubic feet.** Refer to page four for an explanation for each column on the inventory form. Use the chemical MSDS for reference. Provide a copy to Fire Prevention via fax: 253-538-6486 or

Or the mailing address is:

Central Pierce Fire & Rescue, Station 71

Att-Clifford Iotte, DFM

902 7th St NW

Puyallup, Wa. 98371

Questions, do not hesitate to call my office at 253-538-6438 or 253.538.6402.

Central Pierce Fire & Rescue

HAZARDOUS MATERIALS INVENTORY STATEMENT **(PROPOSED)**

Business Name: _____ Phone _____ Occupancy #: _____ Bldg sq ft _____

Business **Billing** Address: _____

Declaration:

Under Penalty of perjury, I declare the information attached as part of the hazardous materials inventory statement is true and correct.

Signature: _____ Date: _____ E-mail: _____

Print Name: _____ Title: _____ Office Phone: _____ Cell _____

P=Pure; M=Mixture; S=Solid; L=Liquid; G=Gas LB=Pounds; GA=Gallons; CF=Cubic Feet.

Please print legibly or type. Provide a total for each category of liquids, solids and gases.

DOT Hazard Class 1 thru 9 (1)	Common Trade Name (2)	Chemical Name, Component, concentration (3)	Chemical Abstract Service No. (4)	Physical State (5)	Maximum Quantity on Hand at any Time (6)	Units (7)	Days On Site (8)	Storage Code (Type, Pressure, Temperature) (9)	NFPA 704 Hazard Class (10)	
3	gasoline	petroleum hydrocarbon	8006-61-9	Liquid	35,150	GA	365	B,4,1	3	
3	diesel	No. 2 diesel	x	Liquid	9,500	GA	365	B,4,1	2	
N/A	White Foam Detergent Concentrate	N/A	N/A	Liquid	30	GA	365	R,4,1	1	
N/A	CleanCut 360 Presoack	Mixture	Proprietary	Liquid	15	GA	365	R,4,1	2	
N/A	Yellow Foam Detergent Concentrate	N/A	N/A	Liquid	15	GA	365	R,4,1	2	

Call the Fire Prevention Bureau at (253)538-6402 or 253-538-6438 for assistance.

Please print legibly or type. Provide a total each category of solids, liquids and cubic feet. Occupancy #: _____

DOT Hazard Class 1 thru 9 (1)	Common Trade Name (2)	Chemical Name, Component, Concentration (3)	Chemical Abstract Service number (4)	Physical State (5)	Maximum Quantity on Hand at any Time (6)	Units (7)	Days On Site (8)	Storage Code (type, Pressure, Temperature) (9)	NFPA 704 Hazard Class (10)	
8	Turtle Wax HP-94	MAX Power High pH Presoak	Proprietary, 64-02-8, 1310-73-2, 6834-92-0, 111-78-2	Liquid	15	GA	365	M, 4, 1	2	
N/A	Wax Luster	N/A	57-55-6, 74-87-3, 2991-28-2, 111-76-2, 64741-44-2, 61789-77-3	Liquid	15	GA	365	R, 4, 1	N/A	
N/A	Blue Foam Detergent Concentrate	N/A	N/A	Liquid	15	GA	365	R, 4, 1	Health 1 FLAM: 1	
N/A	Yellow Foam Wax Concentrate	N/A	64741-44-2	Liquid	15	GA	365	R, 4, 1	Health 1 FLAM: 1	
N/A	Blue Foam Wax Concentrate	N/A	64741-44-2	Liquid	15	GA	365	R, 4, 1	Health 1 FLAM: 1	
N/A	Clear Coat Protectant	Mixture	Proprietary	Liquid	15	GA	365	R, 4, 1	Eye Irritation: 2B Skin Irritation: 3	
N/A	RYKO Rainshield	N/A	107-41-5, 56-81-5	Liquid	15	GA	365	R, 4, 1	Health 2 FLAM: 1	
N/A	Red Foam Wax Concentrate	Surfactant Blend	Proprietary	Liquid	15	GA	365	R, 4, 1	Eye Irritation: 2B Skin Irritation: 3	
N/A	Prep Pro I	N/A	Proprietary	Liquid	15	GA	365	R, 4, 1	N/A	

Area below is for Fire Department use only.

TOTAL

RANGE NUMBERS	+	=
TOTAL RANGE NUMBERS		FEE
	X \$25	\$

Please print legibly or type. Provide a total each category of solids, liquids and cubic feet. Occupancy #: _____

CRITERIA FOR FILLING OUT EACH COLUMN OF THE INVENTORY FORM

COLUMN 1.

Provide **DOT** hazard class ratings for each material. Class 1 thru 9.

Class 1 – Explosives

Class 2 - Compressed gases

Class 3 – Flammable liquids

Class 4 – Flammable solids

Class 5 – Oxidizers

Class 6 – Poisons (Only hazard class 3 and 4 are regulated)

Class 7 – Radioactive

Class 8 – Corrosives

Class 9 – Misc or ORM rated materials do not require reporting unless they have of physical characteristics of a Class 1 thru 8.

COLUMN 2. Provide the **Common or Trade Name** of the regulated materials.

COLUMN 3. Provide the **Chemical Name** and major components and concentrations, if a mixture.

COLUMN 4. Enter the chemical abstract service number (**CAS Number**) found in 29 C.F.R or MSDS. For mixtures, enter the CAS number of the mixture as a whole if it has been assigned a number distinct from the combined components. For a mixture that has no CAS number, leave this item blank or report the CAS numbers of as many components component chemicals as possible.

COLUMN 5. Enter the following descriptive codes as they apply to the physical state of each material. You may list more than one code, if applicable. **P=Pure; M=Mixture; S=Solid; L=Liquid; G=Gas**

COLUMN 6. Provide the aggregate maximum quantity of each material handled at any one time by the business. For underground tanks, list the maximum volume (in gallons/liters) of the tank.

COLUMN 7. Enter the units in Column 6 as: **LB=Pounds; GA=Gallons; CF=Cubic Feet.**

COLUMN 8. Enter the number of days that the material was present on site (during the year).

COLUMN 9. Enter the storage codes below for type, temperature and pressure.

TYPE

A = Aboveground Tank

B = Belowground Tank

C = Tank Inside Building

D = Steel Drum

E = Plastic or Nonmetallic Drum

F = Can

G = Carboy

H = Silo

I = Fiber Drum

J = Bag

K = Box

L = Cylinder

M = Glass Bottle/Jug

N = {Plastic Bottle/Jug

O = Tote Bin

P = Tank Wagon

Q = Rail Car

R = Other

TEMPERATURE

4 = Ambient

5 = Greater than Ambient

6 = Less than Ambient, but not cryogenic (<-150°F)

7 = Cryogenic conditions (>-150°F)




PRESSURE




1 = Ambient (Atmospheric)

2 = Less than Ambient (Atmospheric)

3 = Greater Ambient (Atmospheric)

SOURCES USED TO ASSIST IN CLASSIFYING HAZARDOUS MATERIALS

 Material Safety Data Sheets (MSDS)
 CC INFO Disc and other computer data bases
 SAX, Dangerous Properties of Industrial Material

 NFPA 49
 International Fire Code (IFC)
 Consultant

DEFINITIONS

COMBUSTIBLE LIQUID is a liquid having a flash point at or above 100°F (37.8°C). Combustible liquids are subdivided as follows. The category of combustible liquids does not include compressed gases or cryogenic fluids.

CLASS II LIQUIDS - are those having a closed cup flash points at or above 100°F (37.8°C) and below 140°F (60°C).

CLASS III-A LIQUIDS - are those having a closed cup flash points at or above 140°F (60°C) and below 200°F (93.3°C).

CLASS III-B LIQUIDS - are those liquids having closed cup flash points at or above 200°F (93.3°C).

FLAMMABLE LIQUID is a liquid having a closed cup flash point below 100°F (37.8°C). The category of flammable liquids does not include compressed gases or cryogenic fluids. Flammable liquids are further categorized into a group known as Class I Liquids. The class I category is subdivided as follows:

Class I-A - liquids include those having a flash point below 73°F (22.8°C) and having a boiling point below 100°F (37.8°C).

Class I-B - liquids including those having a flash point below 73°F (22.8°C) & having a boiling point at or above 100°F (37.8°C).

Class I-C - liquids include those having a flash point at or above 73°F (22.8°C) and below 100°F (37.8°C).

CORROSIVE is a chemical that causes visible destruction of, or irreversible alterations in, living tissue by chemical action at the site of contact.

FLAMMABLE SOLIDS is a solid substance, other than one which is defined as a blasting agent or explosive, that is liable to cause fire through friction or as a result of retained heat from manufacture, which has an ignition temperature below 212°F (100°C), or which burns so vigorously or persistently when ignited that it creates a serious hazard. Flammable solids include finely divided solid materials which when dispersed in air as a cloud could be ignited and cause an explosion.

OXIDIZER is a chemical other than a blasting agent or explosive that initiates or promotes combustion in other materials, thereby causing fire either of itself or through the release of oxygen or other gases. Oxidizers can either be liquid, solid or gases. Oxidizers can further be classified as the following:

Class 4 - An oxidizer that can undergo an explosive reaction due to contamination or exposure to thermal or physical shock. In addition, the oxidizer will enhance the burning rate and may cause spontaneous ignition of combustibles.

Class 3 - An oxidizer that will cause a severe increase in the burning rate of combustible materials with which it comes into contact or that will undergo vigorous self-sustained decomposition due to contamination or exposure to heat.

Class 2 - An oxidizer that will cause a moderate increase in the burning rate or that may cause spontaneous ignition of combustible materials with which it comes in contact.

Class 1 - An oxidizer whose primary hazard is that it slightly increases the burning rate but does not cause spontaneous ignition when it comes in contact with combustible materials.

ORGANIC PEROXIDE is an organic compound that can present an explosion hazard (detonation or deflagration) or they can be shock sensitive. They can decompose into various unstable compounds over an extended period of time. Organic Peroxides and either are liquids, pastes or solids (usually finely divided powders).

Organic Peroxides can further be classified as the following:

Unclassified - Peroxides which are capable of detonation. These peroxides present an extremely high explosion hazard through rapid explosive materials.

Class I Peroxides capable of deflagration but not detonations. They present a high explosion hazard through rapid decomposition.

Class II - Peroxides that burn very rapidly and present a severe reactivity hazardous

Class III - Peroxides that burn rapidly and presents a moderate reactivity hazard.

Class IV - Peroxides that burn in the same manner as ordinary combustible and present a minimum reactivity hazard.

Class V - Peroxides that do not burn or present a decomposition hazard.

PYROPHORIC is a chemical that will spontaneously ignite in air at or below a temperature of 130°F (54.5°C). Pyrophoric materials can either be gases, liquids or solids.

UNSTABLE (REACTIVE) MATERIALS:

Class 4 - Materials which in themselves are readily capable of detonation or of explosive decomposition or explosive reaction at normal temperatures and pressures. This class could include materials which are sensitive to mechanical or localized thermal shock at normal temperatures and pressures.

Class 3 - Materials which in themselves are capable of detonation or of explosive decomposition or explosive reaction but which require a strong initiating source or which must be heated under confinement before initiation. This degree should include materials which are sensitive to thermal or mechanical shock at elevated temperatures or pressures.

Class 2 - Materials which in themselves are normally unstable and readily undergo violent chemical change but do not detonate. This degree should include materials which can undergo chemical change with rapid release of energy at normal temperatures and pressures and which can undergo violent chemical change at elevated temperatures and pressures.

Class 1 - Materials which in themselves are normally stable but which can become unstable at elevated temperatures and pressures.

WATER-REACTIVE MATERIALS is material which explodes; violently reacts; produces flammable, toxic or other hazardous gases; or involves enough heat to cause self-ignition or ignition of nearby combustibles upon exposure to water or moisture. Water-reactive materials can further be classified as the following:

Class 3 - Materials which react violently with water without requiring heat or confinement.

Class 2 - Materials which may form potentially explosive mixtures with water.

Class 1 - Materials which may react with water with some release of energy, but not violently.

As per the 2009 International Fire Code 2701.5.1 Hazardous Materials Management Plan

Where required by the fire code official, each application for a permit shall include a Hazardous Materials Management Plan (HMMP).

The HMMP shall include a facility site plan designating the following:

1. Storage and use areas.
2. Maximum amount of each material stored or used in each area.
3. Range of container sizes.
4. Locations of emergency isolation and mitigation valves and devices.
5. Product conveying piping containing liquids or gases, other than utility-owned fuel gas lines and low-pressure fuel gas lines.
6. On and off positions of valves for valves that are of the self-indicating type.
7. Storage plan showing the intended storage arrangement, including the location and dimensions of aisles.
8. The location and type of emergency equipment. The plans shall be legible and drawn approximately to scale. Separate distribution systems are allowed to be shown on separate pages.

IFC 2701.5.2 Hazardous Materials Inventory Statement (HMIS).

Where required by the fire code official, an application for a permit shall include an HMIS, such as SARA (Superfund Amendments and Reauthorization Act of 1986) Title III, Tier II Report, or other approved statement.

The HMIS shall include:

1. Manufacturer's name.
2. Chemical name, trade names, hazardous ingredients.
3. Hazard classification.
4. MSDS or equivalent.
5. United Nations (UN), North America (NA) or the Chemical Abstract Service (CAS) identification number.
6. Maximum quantity stored or used on-site at one time.
7. Storage conditions related to the storage type, temperature and pressure

**Central Pierce Fire & Rescue
HAZARDOUS MATERIALS
INVENTORY
Permit Calculation Sheet**

**Liquids/
Gallons**

Range

55	1
500	2
946	3
1,836	4
4,500	5
15,180	6
65,581	7
70,000	8
75,000	9
85,000	10

**Gases/
Cubic Feet**

Range

199	1
1,999	2
3,600	3
6,800	4
16,400	5
35,600	6
54,800	7
74,000	8
80,000	9
90,000	10

**Solids/
Pounds**

Range

499	1
1,000	2
2,000	3
3,000	4
4,000	5
5,000	6
10,000	7
11,000	8
12,000	9
15,000	10

Total Range of Quantities x \$25.00 =
Annual Hazardous Material Handling,
Storage and Use Fee