Using Electronic Resources to Gather Hazmat Information

Overview

Electronic resources are useful tools for emergency responders and others with potential exposures to hazardous materials. In this exercise you will use several online resources to gather information needed in response to a scenario.

Objectives

When complete you will better be able to:

- Access electronic resources
- ➤ Demonstrate the use of online resources to gather information and complete a worksheet in response to a scenario

Gather Information

Use online resources to complete the hazardous substance information worksheet on the next several pages for the following scenario or another scenario provided the facilitator:

Your emergency response team has been called to the chemical supply room at your manufacturing facility. The area supervisor indicates that a 400 gallon intermodal container or tote containing (acetone or other flammable liquid) has developed a significant leak around its valve assembly. All workers have been evacuated from the area, but a large pool of product, estimated to be approximately 100 gallons, is on the floor.

Hazardous Substance Information Worksheet

Product Identification:

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Common Nam	e:			С	hemical Name:			
DOT Class:			Shipping Label:	•	ID #:		CAS #:	
Manufacturer:			- '					
NFPA 704:	Health (Blue)	: F	Flammability (Red):	ı	Reactivity (Yellow):	Specia	al Hazards:	
Weather Co	nditional					· ·		
Temperature:		Humid	itv:		Precipitation:		Sky:	
Dew Point:			etric Pressure:		Inversion Height:			
Wind Direction	nn.	Wind S			Forecast:			
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Physical Pro		T			T		T	
Reference Sou	urces: different sources	#1) Pa	: ige:		#2: Page:		#3: Page:	
Physical Desci			<u> </u>		<u> </u>		3	
Color:								
Odor:								
Odor Threshol	d:							
Specific Gravit	y:							
Relative Gas D	Density:							
Vapor Pressur	e:							
□ Boiling/ □ Co	ondensing Point:			F		F		F
Melting/ Freez	ing Point:			F		F		F
Expansion Rat	tio for gases:							
Solubility In Wa	ater:	□Y	□ N	%	□Y□N	%	□Y□N	%
Soluble With V	Vhat:							
Degree Of Sol	ubility:							
Molecular Wei	ght:							
Conversion fro 24.45 x TLV (n	om mg/m³ to ppm ng/m³) / MW	:						

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Other:

Flammability Properties:			
Reference Sources:	#1:	#2:	#3:
I.E.L.	Page:	Page:	Page:
LEL:			
UEL:			
Flash Point:		F	F F
Autoignition Temperature		F	F F
Decomposition:	□Y□N	□Y□N	□Y□N
Explosion Potential:	□Y□N	□Y□N	□ Y □ N
Toxic Products of Combust	tion:		
Extinguishing Agents:			
Other:			
Reactivity Properties: \[\text{\tint{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	Vos □ No		
Reference Sources:	#1:	#2:	#3:
	Page:	Page:	Page:
Pyrophoric:	□ Yes □ No	□ Yes □ No	□ Yes □ No
Explosive:	□ Yes □ No	□ Yes □ No	□ Yes □ No
Polymerization:	□ Yes □ No	□ Yes □ No	□ Yes □ No
With what other chemicals?			
Other:			
Corrosive Properties:	Ves □ No		
Reference Sources:	#1:	#2:	#3:
	Page:	Page:	Page:
Skin:	□ Yes □ No	□ Yes □ No	□ Yes □ No
Metal:	□ Yes □ No	□ Yes □ No	□ Yes □ No
pH:			
Neutralizing Agent:			
Other:			
Radioactive Properties:	Yes 🗆 No		
D (0		1 40	
Reference Sources:	#1: Page:	#2: Page:	#3: Page:
Alpha			
Beta:			
Gamma:			
Neutrons:			

Reference So	urces:	#1: Page:		#2: Page:	#3: Page:
		i age.		1 ago.	r age.
PEL:					
ΓLV:					
REL:					
DLH:					
TWA:					
STEL:					
CEILING:					
LD ₅₀					
LC ₅₀					
Inhalation:		□ Yes □	No	□ Yes □ No	□ Yes □ No
ngestion:		□ Yes □	No	□ Yes □ No	□ Yes □ No
Skin Absorptio	n:	□ Yes □	No	□ Yes □ No	□ Yes □ No
Eye Absorptio		□ Yes □	No	□ Yes □ No	□ Yes □ No
Carcinogen:		□ Yes □	No	□ Yes □ No	□ Yes □ No
Teratogen:		□ Yes □	No	□ Yes □ No	□ Yes □ No
Mutagenic:		□ Yes □	No	□ Yes □ No	□ Yes □ No
Aquatic:		□ Yes □	No	□ Yes □ No	□ Yes □ No
Other:					
Target Orgar	#1:	ı No	#2:		#3:
Sources:	Page:		Page:		Page:
Exposure Siç	gns/Sympto	ms:			
Reference	#1:		#2:		#3:
Sources:	Page:		Page:		Page:

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Reference	#1:	#2:	#3:
Sources:	Page:	Page:	Page:

First Aid:

Reference	#1:	#2:	#3:
Sources:	Page:	Page:	Page:

Mitigation Procedures:

Reference	#1:	#2:	#3:
Sources:	Page:	Page:	Page:

Shelter, Protection, Evacuation Procedures:

Discuss

Be ready to discuss the following:

- Who would compile the information in the worksheet?
- How would information developed on this form be used in the Incident Command System or at your workplace?
- Using information from the worksheet, prepare an entry briefing for your staff.
- What information on this form would be of value for making strategic decisions regarding:
 - o PPE?
 - o DECON?
 - o Evacuation?
 - o Hazard Control?