

## HMBP 101

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26th California Unified Program Annual Training Conference February 26-29, 2024



ALIFORNIA

Melisa Custer -Los Angeles County Fire

FIRE

EPARTME

### Introductions



Teresa Quiaoit - Los Angeles County Fire



Nikki Bandak -Santa Fe Springs Fire-Rescue



## Slido Question 1



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# **Key Points**

- Emergency Planning and Community Right-to-Know Act
- Statutes and Regulations
- Hazardous Materials
- Hazardous Material Business Plan
  - Release Reporting



Emergency **Planning** and Community Right-to-Know Act (EPCRA)



# Bhopal, India

### Worst industrial accident to ever occur

- Dec, 2, 1984
- Union Carbide Pesticide Plant
- Over 500,000 people exposed
- 45 tons of toxic methyl isocyanate gas
- 15,000+ died

# Bhopal, India

#### Dec, 2-3 1984

### **Cause and After Effects**

#### Cause

- Substandard operating and safety procedures
- Understaffed facility
- Training deficiencies
- After Effects
- Creation of the EPCRA
- Documentary
- Netflix: the Railwaymen the untold story of Bhopal 1984

# Emergency Planning & Community Right-to-Know Act (EPCRA)

# 1986

# Goal: To help communities plan for chemical emergencies:

- Protect
  - Regulate industry storage and incident reporting
- Educate
  - Increase the public's knowledge of the presence and threat of hazardous chemicals
- Prepare
  - Establishment of state and local committees to prepare communities and emergency response plans
- Respond
  - Help communities prepare to respond in the event of a chemical emergency



Authorized by Title III of the Superfund Amendment and Reauthorization Act (SARA)

## **Important EPCRA sections**

#### Section 301- 303

- Establishes emergency planning requirements
- Requires notifying authorities of the presence of Extremely Hazardous Substances

#### Section 304

• Requires notifying authorities when chemicals are released

### **Important EPCRA sections**

### Section 311- 312

• Requires facilities to report hazardous chemicals that are used and stored

#### Section 313

• Establishes the Toxic Release Inventory Program

Section 322

Requires Facilities to submit forms to support any claims of trade secrecy

# **Government Agencies**

### FEDERAL

Environmental Protection Agency (EPA)

#### CALIFORNIA

- California EPA (Cal EPA)
- California Governor's Office of Emergency Services (Cal OES)
- State Emergency Response Commission (SERC)
- Local Emergency Planning Committee (LEPPC)
- Certified Unified Program Agency (CUPA)



# Statues and Regulations



## Slido Question 2



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### Federal

 United States Code (USC)
 Emergency and Hazardous Chemical Inventory Forms

• Title 42, Section 11022

#### Code of Federal Regulations (CFR)

 Hazardous Chemical Reporting: Community Right-to-Know
 Title 40, Part 370

### California

# HSC Chapter 6.95, Article 1 Section 25500-25519

Code California of Regulation (CCR)
Title 8, Section 339
Title 19, Division 2 Chapter 4, Article 4 Section 2620-2734

## Health and Safety Code - Division 20

#### Chapter 6.95: Hazardous Material Release Response Plan and Inventory [25500 – 25546.5]

- Article 1 : [25500-25519]
  - Business Area plan
- Article 2 : [25531-25543.3]
  - Hazardous Materials Management
- Article 3 : [25545]
  - Emergency Planning and Community Right-to-Know Act of 1986
- Article 4 : [2546 -25546.5]
  - California Toxic Release Inventory Program Act 2007



### **Related Laws**

• California Fire Code: Title 24, Part 9, Chapter 27

- § 2701.5.1 → Hazardous Materials Management Plans (HMMP)
- § 2701.5.2 → Hazardous Materials Inventory Statement (HMIS)





# Hazardous Materials



### What is a Hazardous *Material*?

#### Presents a hazard to human health and safety or the environment

"Hazardous material" is any material that, because of its

- Quality
- Concentration
- Physical or chemical characteristics

Poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment, or material specified in an ordinance.



### What is a Hazardous *Substance*?

#### Likely to cause injury or illness

A substance, material, or mixture which by reason of being

- Explosive or flammable
- Poisonous
- Corrosive or oxidizing
- An irritant or otherwise harmful

is likely to cause injury or illness.

Additional Hazardous Substance definitions:

- $5192(a)(3) \rightarrow$  Hazardous Wates Operations purposes only
- 5194(c)  $\rightarrow$  Hazardous Communications purposes only

### **Hazardous Substance**

- Manufacturer/ Producer is required to prepare a Safety Data Sheet (SDS)
- Listed as a hazardous substance:
  - 10 CFR, Part 30, Appendix B as a radioactive material
  - 49 CFR
  - 8 CCR §339
  - HSC §25115,25117, and 25316 as a hazardous waste



### **List of Hazardous Materials**

- List of Lists: a consolidated list of chemicals subjected to:
  - EPCRA
    - Section 302 & 304 → Extremely Hazardous
    - Section 313  $\rightarrow$  Toxic Chemicals
  - Substances (EHS) TPQ and RQ
  - CERCLA Hazardous Substances RQ
  - CAA112(r) Regulated Substances (RS) for accidental release prevention



### **List of Hazardous Materials**



NAME	CAS/313 Category	Section 302 (EHS) TPQ	304 EHS	CERCLA RQ	Section 313	RCRA CODE	CAA 112(r)
	Codes		RQ			2	TQ
Abamectin	71751-41-2				313		
Acenaphthene	83-32-9			100			
Acenaphthylene	208-96-8			5,000			
Acephate	30560-19-1				313		
Acetaldehyde	75-07-0			1,000	313	U001	10,000
Acetaldehyde, trichloro-	75-87-6			5,000		U034	
Acetamide	60-35-5			100	313		
Acetic acid	64-19-7			5,000			
Acetic acid, (2,4-dichlorophenoxy)-	94-75-7			100	Х	U240	
Acetic acid ethenyl ester	108-05-4	1,000	5,000	5,000	Х		15,000
Acetic anhydride	108-24-7			5,000			
Acetone	67-64-1		10 h	5,000	1.	U002	
Acetone cyanohydrin	75-86-5	1,000	10	10	X	P069	
Acetone thiosemicarbazide	1752-30-3	1,000/10,000	1,000				
Acetonitrile	75-05-8		5.	5,000	313	U003	
Acetophenone	98-86-2			5,000	313	U004	
2-Acetylaminofluorene	53-96-3			1	313	U005	
Acetyl bromide	506-96-7			5,000			
Acetyl chloride	75-36-5			5,000		U006	

### **Hazardous Material**

### **Hazardous Materials**

### Hazardous Substance

### Hazardous Waste

# Slido Question #3



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### **Excluded Chemicals**

#### **Federal Definitions**

- Any *food, food additive, color additive, drug, or cosmetic* regulated by the FDA.
- Any substance present as a *solid* in any manufactured item that the extend *exposure to the substance does not occur under normal condition of use*.
- Any substance to the extent it is used for *personal, family, or household purposes*, or is
  present in the same form and concentration as a product packaged for distribution and use by
  the *general public*.
- Any substance to the extent it is used in a research laboratory/hospital/other medical facility under the direct supervision of technically qualified individual.
- Any substance to the extent it is used in *routine agricultural operations* or is a *fertilizer held for sale by a retailer* to the ultimate customer.

# Hazardous Material Classification



### **Hazardous Materials Classification**





## Slido #4



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### **Department of Transportation**



# Hazard class of dangerous goods is indicated by its class number or name.

- 9 Classes:
  - Class 1: Explosive
  - Class 2: Gases
  - Class 3: Flammable Liquid and Combustible Liquid
  - Class 4: Flammable Solid, Spontaneously Combustible, and Dangerous when Wet
  - Class 5: Oxidizer and Organic Peroxide
  - Class 6: Poison (Toxic) and Poison Inhalation Hazard
  - Class 7: Radioactive
  - Class 8: Corrosive
  - Class 9: Miscellaneous



### National Fire Protection Association NFPA 400

- Defines hazardous material as:
  - A chemical or substance that is classified as a physical hazard material or a health hazard material, whether the chemical or substance is in usable or waste condition
- Physical Hazard Material
  - Explosive, Flammable cryogen, Flammable gas, Flammable solid, Ignitable liquid, Organic peroxide, Oxidizer, Oxidizing Cryogen, Pyrophoric, Unstable(reactive), Water-reactive
- Health Hazard Material
  - Toxic
  - Highly Toxic
  - Corrosive

# Slido Question #5



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### **OSHA - Hazard Communication Standard** Physical

#### **Fire Hazards**

- Combustible Liquid
- Flammable Liquid
- Flammable Aerosol
- Flammable Gas
- Flammable Solid
- Oxidizer
- Pyrophoric

#### **Reactive Hazards**

- Organic Peroxide
- Unstable (reactive)
- Water-reactive

#### **Explosion Hazards**

- Compressed Gas
- Explosive

### **OSHA - Hazard Communication Standard** Health

#### **Systemic Effects**

- Carcinogen
- Toxic Agent.
- Highly Toxic Agent
- Corrosive
- Irritant
- Sensitizer

#### **Target Organ Effects**

- Hepatotoxin
- Nephrotoxin
- Neurotoxin
- Blood/hematopoietic Toxin
- Reproductive Toxin
- Cutaneous Hazard
- Eye Hazard

### **Global Harmonized System**

#### **Classification & Labeling of Chemicals**

Includes criteria for classification of

- Health
- Physical
- Environment health

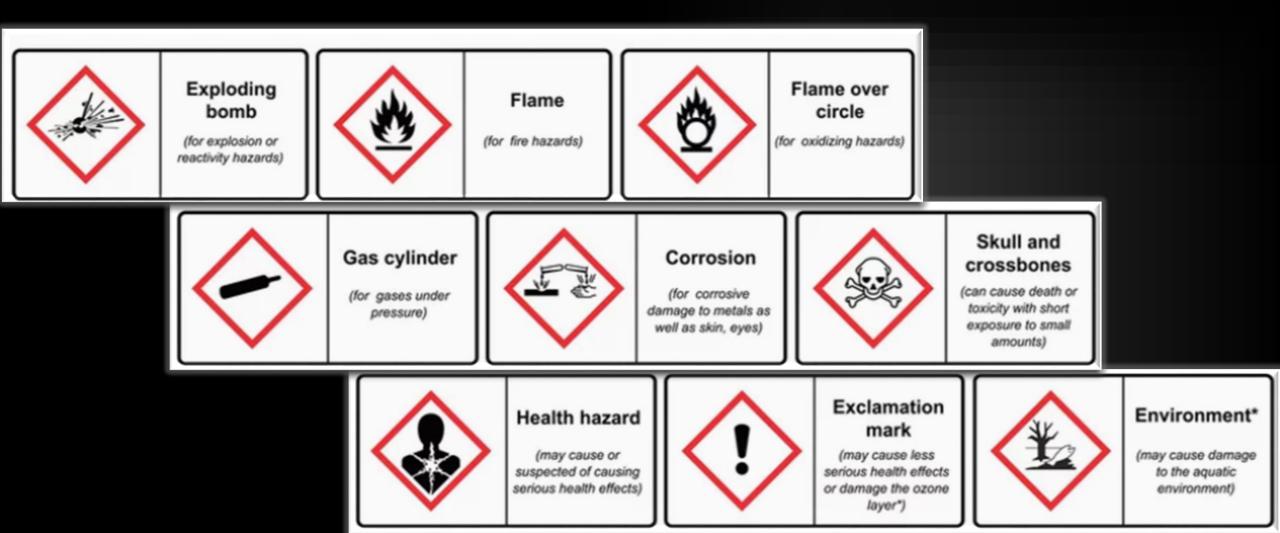
Classification of chemicals by types of hazard and proposes harmonized hazard communication elements.





### **Global Harmonized System**

#### **Classification & labeling of Chemicals**



### **Safety Data Sheet**



- Formerly known as Material Safety Data Sheet (MSDS)
- User-friendly 16 section format is now required
- Includes information
  - Properties of each chemical
  - Physical health
  - Environmental health hazards
  - Protective measures
  - Safety precautions for handling
  - Storing and transporting chemical



### **Safety Data Sheet**

### Section 1-8

- General info about the chemicals
- ID
- Hazard
- Composition
- Safety handling practices
- Emergency control measures

### Section 9-11 & 16

# Other technical and scientific info such as:

- Physical and chemical properties
- Stability and reactivity
- Toxicology
- Exposure control

### **Section 12-15**

To be consistent with UN GHS but not OSHA enforce

# **SDS** example

XXXXX Regular-Bleach

No information available

5813-100

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet

Revision Date June 12, 2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Household disinfecting, sanitizing, and laundry bleach

For Medical Emergencies, call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

### SAMPLE SAFETY DATA SHEET

Revision Number 1

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

2. HAZARDS IDENTIFICATION

### GHS Label elements, including precautionary statements

XXXXX Regular-Bleach

Classification

Signal word		Danger			
lazard Stater	nents				
Causes severe	skin burns and eye dan	nage			
Causes seriou	s eye damage				
	Clear, pale yellow		Physical State Thin liquid	Odor	Bleact
	Clear, pale vellow		Physical State Thin liquid	Odor	BI

<u>Precautionary statements</u> - <u>Response</u> Immediately call a poison center or doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Specific treatment (see supplemental first aid instructions on this label). If in eyes: Rinse caubioaly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Precautionary Statements - Storage Store locked up.

Precautionary Statements - Disposal Dispose of contents in accordance with all applicable federal, state, and local regulations.

<u>Hazards not otherwise classified (HNOC)</u> Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis, or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

Product contains a strong oxidizer. Always flush drains before and after use.

XXXXX Rocu

Revision Date June 12, 2015

### gular-Bleach

Revision Date June 12, 2015

Unknown Toxicity Not applicable.

### Other information

Very toxic to aquatic life with long lasting effects.

### Interactions with Other Chemicals

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or products containing ammonia to produce hazardous irritating gases, such as chlorine and other chlorinated compounds.

Chemical Name	CAS-No	Weight %	Trade Secret
Sodium hypochlorite	7681-52-9	5 - 10	
* The exact nementane (concentration) of composition has been withheld as a trade secret			

4. FIRST AID MEASURES First aid measures General Advice Call a poison control center or doctor immediately for treatment advice. Show this safety data sheet to the doctor in attendance. Eve Contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Inhalation Move to fresh air. If breathing is affected, call a doctor. Indestion Have person sip a classful of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice. Protection of First-aiders Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Burning of eyes and skin. Effects

### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

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Issuing Date January 5, 2015

Other means of identification

Product identifier Product Name

Recommended use

Uses advised against

Supplier Address

The XXXXX Company 1221 Broadway

Oakland, CA 94612

Phone: 1-510-XXX-XXXX

Emergency telephone number

Emergency Phone Numbers

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### SDS example

### XXXXX Regular-Bleach

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### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical This product causes burns to eyes, skin, and mucous membranes. Thermal decomposition can release sodium chlorate and irritating gases and vapors.

Explosion Data

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge None

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL	DEI EASE	MEASUIDES
6. ACCIDENTAL	RELEASE	MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment as required. For spills of multiple products, responders should evaluate the MSDSs of the products for incompatibility with sodium hypochiorite. Breathing protection should be worn in enclosed and/or poorly-ventilated areas until hazard assessment is complete.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental Precautions	This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams. See Section 12 for ecological Information.	
Methods and material for containment and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.	

Methods for Containment	Prevent further leakage or	spillage if sale to do so.	
Methods for Cleaning Up	Absorb and containerize.	Wash residual down to sanitary sewer.	Contact the sanitary
	treatment facility in advance	ce to assure ability to process washed-do	wn material.

XXXXX Regular-Bleach

Revision Date June 12, 2015

### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

	Store away from children. Reclose cap tightly after each use. Store this product upright in a cool, dry area, away from direct sunlight and heat to avoid deterioration. Do not contaminate food or feed by storage of this product.
Incompatible Products	Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hypochlorite 7681-52-9	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

### Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
Individual protection measures	s, such as personal protective equipment
Eye/Face Protection	If splashes are likely to occur: Wear safety glasses with side shields (or goggles) or face shield.
Skin and Body Protection	Wear rubber or neoprene gloves and protective clothing such as long-sleeved shirt.
Respiratory Protection	If irritation is experienced, NIOSHMSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands after direct contact. Do not wear product-contaminated dolhing for prolonged periods. Remove and wash contaminated dolhing before re-use. Do not eat, drink, or smoke when using this product.

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	9. PHYSICAL AND CHE	MICAL PROPERTIES	
Physical and Chemical Properti	es		
Physical State	Thin liquid		
Appearance	Clear	Odor	Bleach
Color	Pale yellow	Odor Threshold	No information available
Property	Values	Remarks/ Method	
pH	~12	None known	
Melting/freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	Not flammable	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
Upper flammability limit	No data available	None known	
Lower flammability limit	No data available	None known	
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	~11	None known	
Water Solubility	Soluble	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/		None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive Properties	Not explosive		
Oxidizing Properties	No data available		
Other Information			
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		
Particle Size Distribution	No data available		
Particle Size Distribution	No data avaliable		
	10. STABILITY AN	D REACTIVITY	
Reactivity			
Reacts with other household chem	icals such as toilet bowl cleaners, r	rust removers, acids, or products	containing ammonia to pre
hazardous irritating gases, such as			denner of grant of pro-
and a second and a second s		i pourios.	
Chemical stability			
Stable under recommended stora	ne conditions		
Possibility of Hazardous Reacti	ons		
None under normal processing.			

Incompatible materials Toilet bowl cleaners, rust removers, acids, and products containing ammonia.

Hazardous Decomposition Products None known based on information supplie

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### SDS example

### XXXXX Regular-Bleach<sub>1</sub>

11. TOXICOLOGICAL INFORMATION			
Information on likely routes of exposure			
Product Information			
Inhalation	Exposure to vapor or mist may initate respiratory tract and cause coughing. Inhalation of high concentrations may cause pulmonary edema.		
Eye Contact	Corrosive. May cause severe damage to eyes.		
Skin Contact	May cause severe irritation to skin. Prolonged contact may cause burns to skin.		
Ingestion	Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.		

### Component Information

Sympto

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

### Information on toxicological effects

oms	May cause redne	ss and tearing of the eyes.	May cause burns to eyes.	May cause redness
	or burns to skin.	Inhalation may cause cou	ahina.	

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

No information available. Sensitization

Mutagenic Effects No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

				· ·
Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3		
	as to Carcinogenicity in Hun			
Reproductive Toxicity	No informatio	n available.		
STOT - single exposure	No informatio	n available.		

STOT - repeated exposure	No information available.
Chronic Toxicity	Carcinogenic potential is unknown.
Target Organ Effects	Respiratory system, eyes, skin, gastrointestinal tract (GI).
Assistion Hererd	No information available

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XXXXX Regular-Bleach

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 54 g/kg ATEmix (inhalation-dust/mist)

58 mg/L

### 12. ECOLOGICAL INFORMATION

Ecotoxicity Very toxic to aquatic life with long lasting effects.

This product is toxic to fish, aquatic invertebrates, oysters, and shrimp. Do not allow product to enter storm drains, lakes, or streams.

Persistence and Degradability

Bioaccumulation No information available

Other adverse effects

information availab

DOT

TDG

ICAO

IATA

### 13. DISPOSAL CONSIDERATIONS

Disposal methods Dispose of in accordance with all applicable federal, state, and local regulations. Do not contaminate food or feed by disposal of this product.

### Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

	14. TRANSPORT INFORMATION				
N	lot restricted.				

Not residued for fold of fail.
Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception.

Not restricted, as per Special Provision A197, Environmentally Hazardous Substance exception

Not restricted, as per IMDG Code 2.10.2.7, Marine Pollutant exception. IMDG/IMO

Not restricted for road or roll

### XXXXX Regular-Bleach

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### 15. REGULATORY INFORMATION

### Chemical Inventories

TSCA	All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt
DSL/NDSL	from listing. All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

cute Health Hazard	Ye
hronic Health Hazard	No
ire Hazard	No
udden Release of Pressure Hazard	No
leactive Hazard	No

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb			×

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

### EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

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CALIFORNIA

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### **SDS example Final**

### XXXXX Regular-Bleach<sub>1</sub>

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### US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	x	x	x	x	
Sodium chlorate 7775-09-9	x	×	x		

### International Regulations

Canada WHMIS Hazard Class E - Corrosive material



16. OTHER INFORMATION					
NFPA	Health Hazard	3	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard	3	Flammability 0	Physical Hazard 0	Personal Protection B
Prepared	Ву		Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501		
Revision I	Date		June 12, 2015		
Revision I	Note		Revision Section 14.		
Reference	•		1096036/164964.159		

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### End of Safety Data Sheet

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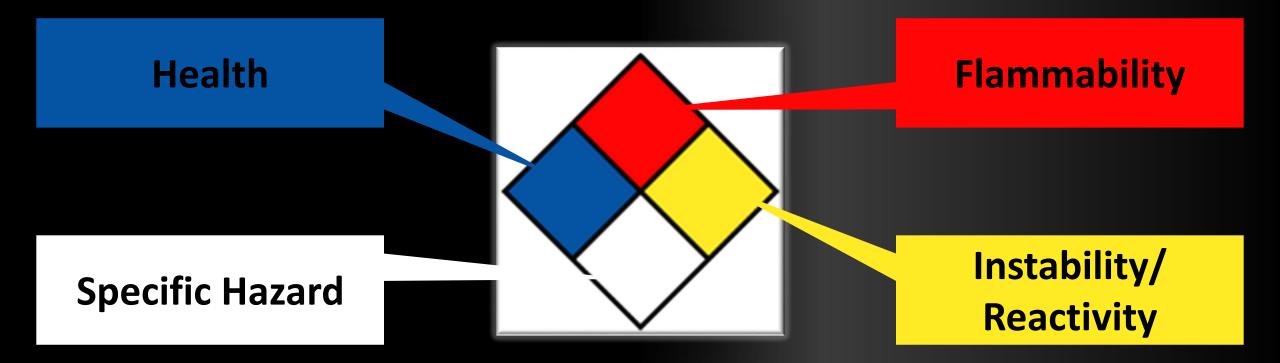
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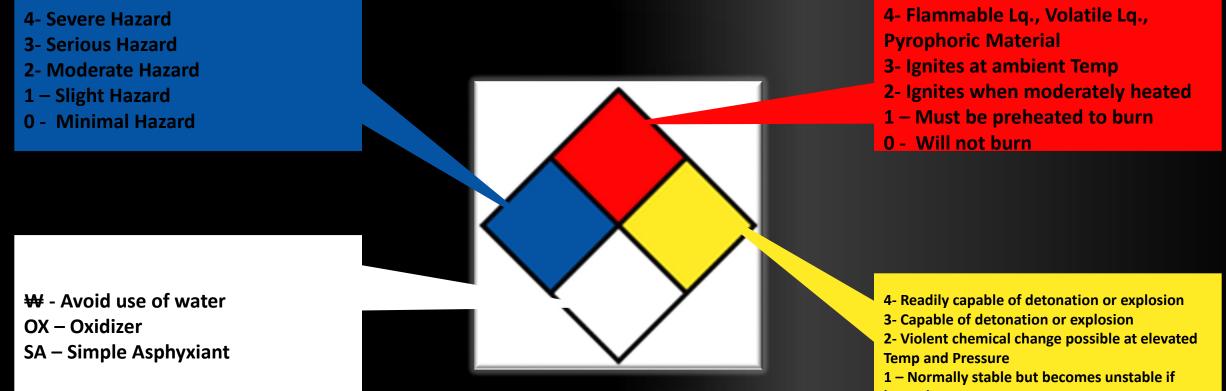
### NFPA 704 "Fire Diamond"

Standard system for the identification of the hazards of materials for emergency response



### NFPA 704 "Fire Diamond"

### Standard system for the identification of the hazards of materials for emergency response



- heated
- 0 Normally Stable

### Flammability

- 0 Materials that will NOT burn in air when exposed to a temperature of 1,500 °F (820 °C) for a period of 5-minutes. (e.g. Carbon Tetrachloride)
- 1 Flash Point at or above 200 °F (93 °C). (e.g. Mineral Oil)
- 2 Flash Point between 100 200 °F (38 93 °C). (e.g. Diesel Fuel)
- 3 Flash Point below 73 °F (23 °C) and having a boiling point at or above 100 °F (38 °C) or having a flash point between 73 100 °F (23- 38 °C). (e.g. Gasoline, Acetone)
- 4 Flash Point below 73 °F (23 °C). (e.g. Acetylene)



### Slido Question #6



### Health

- 0 Poses NO health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible material. (e.g. Wood)
- 1 Exposure would cause irritation with only minor residual injury. (e.g. Acetone)
- 2 Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury. (e.g. Diethyl Ether)
- 3 Short exposure could cause serious temporary or moderate residual injury. (e.g. Chlorine)
- 4 Very short exposure could cause death or major residual injury. (e.g. Hydrofluoric Acid)



# Slido Questions #7



### Instability / Reactivity

- 0 Normally stable, even under fire exposure conditions and is NOT reactive with water. (e.g. Helium)
- 1 Normally stable but can become unstable at elevated temperatures and pressure. (e.g. Phosphorous)
- 2 Undergoes violent chemical changes at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water. (e.g. Calcium Metal)
- 3 Capable of detonation or explosive decomposition but requires a strong initiating source, must be heated under confinement before initiation, reacts explosively with water, or will detonate if severely shocked (e.g. Ammonium Nitrate\_
- 4 Readily capable of detonation or explosive decomposition at normal temperature and pressures. (e.g. Nitroglycerin)



### Slido Question #8



### **Specific Hazards**

OX – Oxidizers, allows chemicals to burn without an air supply. (e.g. Potassium Perchlorate) W – Reacts with water in an unusual or dangerous manner. (e.g. Cesium)

SA – Simple Asphyxiant Gas. (e.g. Nitrogen, Helium, Argon)



# BREAK TIME!



Hazardous Material Business Plan (HMBP)



### **Hazardous Material Business Plan**

A business shall establish and implement a business plan for emergency response to a release or threatened release of hazardous material

Hazardous Material Business Plan shall include:

- Inventory
- Site Map
- Emergency Response Plan/ Contingency Plan
- Employee Training

Required to implement within 30-days of becoming subject

Business shall notify, in writing, the owner of the property that the business is subject to the Hazardous Material Program and provide a copy of HMBP 5-days after request.

HCS § 25501.1, 25505, 25508(b)

### **Hazardous Material Inventory**

# In 1987 states were given flexibility to implement hazardous chemical inventory reporting requirements.

Requirements:

- Chemical Name
- Extremely Hazardous Substance (EHS)
- Trade Secret
- Mixture Composition
- Physical and Health Hazards (24 Federal Hazardous Categories)
- Max Amount, Avg. Daily Amount, # day's on-site, storage types, conditions, locations



HSC§ 25506 and USC § 11022

### **California Electronic Reporting System (CERS)**

### **Chemical Inventory**

		mennical			
Chemical Identification and Physic Chemical Name Lubricating oils, used Common Name Used lubricating oils	al Properties	CAS N 70514	umber 1-12-4	CERS Chemical Library ID - US EPA SRS ID 777573	
Physical State OSolid OGas	Hazardous Material Type Pure OMixture OWaste			Trade Secret ◯Yes ◯No	
		Chemical Hazard HS Yes No adioactive Yes No uries ederal Hazard Cater PHYSICAL: Flamm PHYSICAL: Flamm PHYSICAL: Gas L PHYSICAL: Self-h PHYSICAL: Pyrop	Fire C Fire C View/ View/ View/ Jnder Pressu osive neating	ode Hazard Classes (by priority)	DOT Hazard Class State Waste Code Lookup Code

### **California Electronic Reporting System**

### **Chemical Inventory**

-Inventory Location a Chemical Location	nd Quantity		A	verage Daily Amou	ınt 🤨 Max	imum Daily Amount 💀	Units 🕡
Chemical Location Confidential EPCRA OYes ONo Map # (Optional) Grid # (Optional)				Largest Container Days on Site		ual Waste Amount 🕑	●gallons ○cubic feet ○pounds ○tons
Inventory Storage In Aboveground Tank Underground Tank Tank Inside Building Steel Drum Plastic/Non-Metallic D	Can Carboy Silo Fiber Drum	<ul> <li>Box</li> <li>Cylinder</li> <li>Glass Bottle</li> <li>Plastic Bottle</li> <li>Tote Bin</li> </ul>	C Tar	nk Truck, Tank Wag nk Car, Rail Car	gon		
Storage Pressure OAmbient OAbove A Mixture Components	mbient OBelow		nber	Storage Te OAmbier % by Weight 💀	EHS	Ambient OBelow Ambie	
					OYes ONC		

### **Trade Secret**

-Chemical Identification and Phys	cal Properties		
Chemical Name Lubricating oils, used Common Name		CAS Number	CERS Chemical Library ID - US EPA SRS ID
Used lubricating oils		70514-12-4	777573
Physical State OSolid OGas	Hazardous Material Type Pure OMixture OWaste		Trade Secret ◯Yes ◯No

### Include, but not limited to

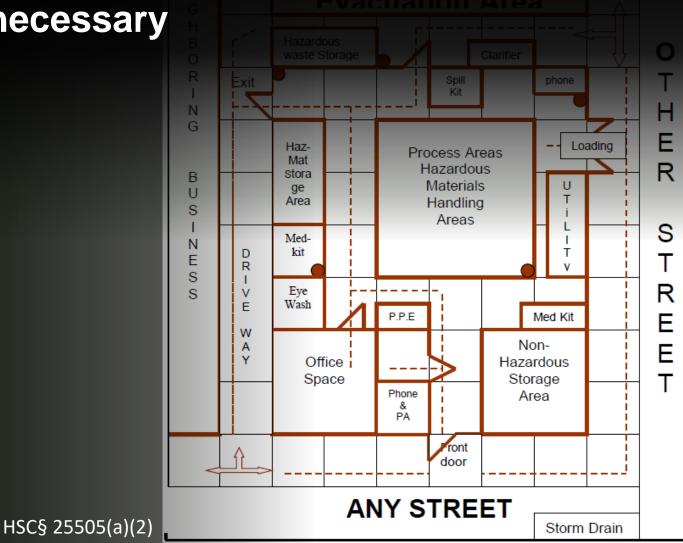
- Formula, plan, pattern, process, tool, mechanism, compound, procedure, production, data, or compiled info NOT patented
- Known only to certain individual(s) w/n a commercial concern
- Used to fabricate, produce, or compound an article of trade
- Provides an opportunity to gain an advantage over competitors

Shall not be disclosed except for official duties from CUPA to contractors if needed for protection of health and safety or medical professionals.

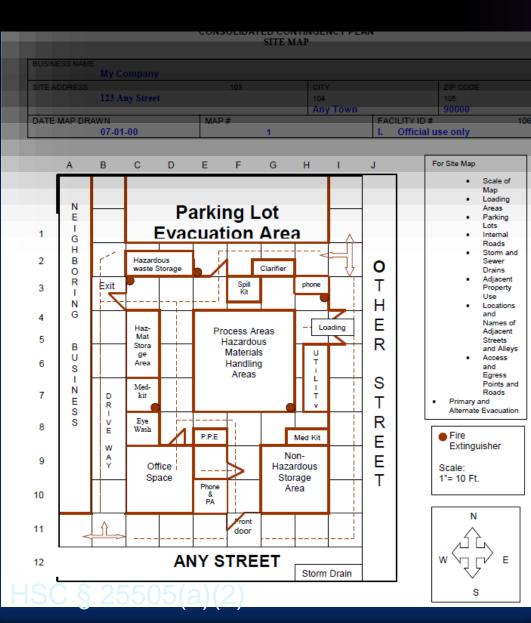
# Site Map

### Shall contain the following as well as additional info if CUPA deems necessary

- Required
  - North Orientation
  - **Adjacent Streets**
  - Access and Exit Points
  - **Evacuation Staging Area**
  - Hazardous Material Handling/ Storage Area
  - **Emergency Response Equipment**
- If Present
  - Loading Areas
  - **Internal Roads**  $\bullet$
  - Storm and Sewer Drains
  - Emergency Shut-offsGas, Electric, Water



### Site Map Example



Item and/or Description	Location Code (LC)
Hazardous materials storage areas.	5-C and 6-C
Hazardous waste storage areas.	3-C and 3-D
Hazardous materials handling areas.	5-EFG, 6-EFG, and 7-EFG
Fire extinguishers.	3-E, 4-C, 4-H, 7-C and 7-G
Spill kit.	4-F
Clarifier.	3-G
Communication equipment.	10-E and 4-H
P.P.E.	8-E
Eye wash.	8-C
Emergency exits.	4-B and 3-F
Loading area.	5-1
Parking lot / Evacuation area.	1-CDEFGH and 2-CDEFGH
First Aid kit.	7-C and 8-H

HSC § 25505(a)(2)

### **Emergency Response and Contingency Plan**

### In the event of a reportable release or threatened release of a hazardous material

- Immediate Notification 0
  - Local Emergency Rescue Personnel (911)
  - Local CUPA  $\bullet$
  - Cal OES (800) 852-7550 ullet
  - National Response Center (800) 424-8802 ullet
  - **Nearest Hospital**
- **Procedures for mitigation**
- **Evacuation plans and procedures**

1. HAZARDOUS MATERIALS; 2. HAZARDOUS WASTE INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR BY (Check all that apply CALLING PUBLIC EMERGENCY RESPONDERS (e.g., 9-1-1) 22CCR66265.52(c CALLING HAZARDOUS WASTE CONTRACTOR ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM In the event of an emergency involving hazardous materials and/or hazardous waste, all facilities must IMMEDIATELY Notify facility personnel and evacuate if necessary in accordance with the Emergency Action Plan (Title 8 California Code of Regulations §3220); Notify local emergency responders by calling 9-1-1; 3. Notify the local Unified Program Agency (UPA) at the phone number below; and Notify the State Warning Center at (800) 852-7550. Facilities that generate, treat, store or dispose of hazardous waste have additional responsibilities to notify and coordinate with other response agencies. Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator must follow the appropriate requirements for the categor of facility and type of release involved: Title 22 California Code of Regulations §66265.56. Emergency Procedures for generators of 1,000 kilograms or more of hazardous waste in any calendar mont Title 22 California Code of Regulations §66265.196. Response to Leaks or Spills and Disposition of Leaking or Unfit-for-Use Tank Systems . Title 40 Code of Federal Regulations §302.6. Notification requirements for a release of a hazardous substance equal to or greater than the reportable quantity 4. Title 22 California Code of Regulations §66262.34(d)(2) and Title 40 Code of Federal Regulations §262.34(d)(5)(ii) for generators of less than 1000 kilograms of hazardous waste in any calendar month. Following notification and before facility operations are resumed in areas of the facility affected by the incident, the Emergency Coordinator shall notify the local UPA and the local fire department's hazardous materials program, if necessary, that the facility is in compliance with requirements to: 1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an exp the facility; and . Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanu procedures are completed 9-1-1 EMERGENCY RESPONSE AMBULANCE, FIRE, POLICE AND CHP PHONE NUMBERS: (800) 852-7550 CALIFORNIA STATE WARNING CENTER (CSW (800) 424-8802 NATIONAL RESPONSE CENTER (NE (800) 222-1222 POISON CONTROL CENTER LOCAL UNIFIED PROGRAM AGENCY (U OTHER (Specify) C4. CS NEAREST MEDICAL FACILITY / HOSPITAL NAME: 19CCR2658(b) (916) 255-3545 AGENCY NOTIFICATION PHONE NUMBERS: CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC) REGIONAL WATER QUALITY CONTROL BOARD (RWQCE (800) 300-2193 U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA CALIFORNIA DEPT. OF FISH AND WILDLIFE (CDFW (916) 358-2900 (202) 267-2180 U.S. COAST GUARD (USCG) (916) 263-2800 CAL OSHA (916) 323-7390 CAL FIRE OFFICE OF THE STATE FIRE MARSHAL (OSFM OTHER (Specify): C9.

OTHER (Specify):

C10

HSC§ 25505(a)(3) 19 CCR § 2658 22 CCR § 66265.52

### **Employee Training**

- New Employees and Current Employees
  - Safety Procedures in the event of release or threatened release
    - Familiarity with Emergency Response Plan
    - Section 313  $\rightarrow$  Toxic Chemicals
  - May take into consideration the position of each employee
  - Documented electronically or by hard copy
  - Available for 3-years



# **Annual CERS submittal**

# An accurate and complete HMBP is required to be submitted annual to CERS

- Due Date
  - Established by the CUPA
  - Otherwise, March 1<sup>st</sup>
- Complete CERS
  - All elements in CERS
  - Exemption for Hazardous Waste ONLY

Businesses Regulators Fraining Announcements EDT Data Seeding	Business Portal Sign In   Business User Training Local Reporting Requirements Unified Program Regulator Directory CERS Chemical Library Unified Program Internet Site CERS Businesses User Group Businesses Must Report Electronically to CERS or a Local R All businesses must now submit Unified Program-related informa	Regulator Portal Sign In  Training Portal Sign In  Regulator User Training  CERS Regulator Users Group (CRUG) Unified Program Violation Library (Eactabed)  CERS Data Registry  Unified Program Internet Site  ageorting Portal			
Fraining Announcements EDT	Local Reporting Requirements     Unified Program Regulator Directory     CERS Chemical Library     Unified Program Internet Site     CERS Business User Group Businesses Must Report Electronically to CERS or a Local R All businesses must now submit Unified Program-related informa	Regulator User Training     CERS Regulator Users Group (CRUG)     United Program Violation Library (Factateet)     CERS Data Registry     United Program Internet Site			
Announcements EDT	Unified Program Regulator Directory     CERS Chemical Library     Unified Program Internet Site     CERS Business User Group Businesses Must Report Electronically to CERS or a Local R All businesses must now submit Unified Program-related informa	CERS Regulator Users Group (CRUG)     United Program Violation Library (Eaclated)     CERS Data Registry     United Program Internet Site			
EDT	Unified Program Internet Site     CERS Businesse User Group Businesses Must Report Electronically to CERS or a Local R All businesses must now submit Unified Program-related informa	CERS Data Registry     Unified Program Internet Site			
Sale Contractor III	Businesses Must Report Electronically to CERS or a Local R All businesses must now submit Unified Program-related informa				
Data Seeding	All businesses must now submit Unified Program-related information	eperting Portal			
	CERS Training Portals Experiment and gain familiarity with using CERS by using the Ba more bare Are you a Multi-Facility/Multi-Jurisdictional Business?	tion to CERS instead of on paper forms. Alternatively, some hoose use to meet this requirement. <u>How information</u>			
	If your business/organization operates multiple CUPA-regulated facilities located in multiple CUPAs, CERS new supports creation of a single corporate identity that allows consolidated management of ALL of your facilities by one or more authorized users. To establish a multi-facility business and consolidate any existing CERS facilities under your business, you need to <u>submit</u> documentation to Cal/EPA. What is CERS? The California Environmental Reporting System (CERS) is a statewide web-based system to support California Unified Program Agencies (CUPAs) and Participating Agencies (PAs) in <u>electronically collecting and reporting various harandour materials-related data</u> as mandated by the <u>California Health and Safety Code</u> and new 2008 legislation (AB 2286). Under oversight by Cal/EPA, CUPAs implement Unified Program mandates that streamline and provide consistent regulatory activities.				
	Recent Annoucements/Blog Postings ( <u>All Announcement</u> Lists/Blogs_)	Other CERS Links  • CERS Entancements Listing (Scheduled and Proposed)			
	Important CERS EDT Update / XML Schemas 1.05 Released (Jar 18, 2013)     New Cel/EPA Policy on Unified Program Reporting Timing				
	<ul> <li>(Jar 06, 2019)</li> <li>CERS Web Sites will be unavailable on Saturday. December 15, 2012 (Dec 10, 2012)</li> <li>CERS Web Sites will be unavailable on Saturday. December 15, 2012 (Dec 10, 2012)</li> </ul>	For additional assistance, please contact the CERS Help Center at <u>care@coleoe.ca.gov</u> .			

# Slido Question #9



# **Changes and Updates**

### Within 30 days update and electronically submit

- 100% increase in quantity of hazardous material
- Additional of new hazardous material
- Change of the following:
  - Address
  - Ownership
  - Business Name
  - Operation
    - Update of site map needed
    - Update of Emergency Response Needed



Hazardous Material **Inventory** -Reportable Quantities

### **Hazardous Material Business Plan**

A business shall establish and implement a business plan for emergency response to a release or threatened release of hazardous material

Hazardous Material in a Reportable Quantities:

- 200 cubic feet
- 500 lbs.
- 55 gallons



HCS § 25507(a)(1)(a)

### Handles at any one time during the year

1,000 cubic feet of cryogenic, refrigerated, or compressed gases

- Simple Asphyxiant
- Oxygen
- Nitrogen
- Carbon Dioxide
- Nitrous Oxide at physician, dentist, vet, pharmacist, or EMS
- Closed Fire suppression system

Shall be reported in the physical state at which they are stored. (e.g. Propane or Liquid Nitrogen is reported in gallons)

HCS § 25507(a)(5)(A-E) HSC § 25507(a)(1)(B)

### Slido Question #10



### Handles at any one time during the year

In any quantity

- Perchlorate
- Combustible Metal or Metal Alloy
  - Pyrophoric or Water Reactive
  - Combustible Dust
  - Flammable Solid
  - Explosive potential when in a molten form



HCS § 25507(7) and (8)(A-C)

### Handles at any one time during the year

Quantities Listed in Chapter 1 of Title 10 Code of Federal Regulation

- Radioactive
  - Part 30, Section 30.1
  - Part 40, Section 40.1
  - Part 70, Section 70.1





# Handles at any one time during the year (Report in Ibs.)

Amount that is  $\geq$  threshold planning quantity (TPQ)

- Extremely Hazardous Substance
  - Defined Title 40 Code Federal Regulation, Section 355.61
  - Listed Title 40 Code of Federal Regulation
    - Appendices A and B of Part 355 of Subchapter J
    - Less than 500 lbs.

			-	
CAS No.	Chemical name	Notes	Reportable quantity* (pounds)	Threshold plan- ning quantity (pounds)
	Acetone Cyanohydrin		10 1,000	1,000 1,000/10,000
107-02-8	Acrolein		1	500
79–06–1	Acrylamide	f	5,000	1,000/10,000
107-13-1	Acrylonitrile	f	100	10,000
814-68-6	Acrylyl Chloride	d	100	100

HCS § 25507(3)(A)

## **Reporting Thresholds**

#### **Increased Reportable Quantity**

Irritant and Sensitizers

- 5,000 lbs.
- 550 gallons
- Classified in Title 8 CCR§ 5194

Paint Recovery Program

- 10,000 lbs.
- 1,000 gallons





HCS § 25507(4), (4)(B)

## Exemptions

#### **Exempt From Reporting**

- Refrigerant gases in closed cooling system
  - NOT ammonia or flammable gases
  - Used for comfort cooling
  - Used for cooling computer rooms
- Compressed air in cylinders, bottles, and tanks
  - Used by Fire Dept or emergency response organizations



## **Exemptions – Lubricating Oil**

#### **Used in an internal combustion**

- Quantities
  - Each oil does not exceed 55-gallons
  - Total of all oil does not exceed 275-gallons
  - E.g. 5 x 55-gallon lubricating oil = 275-gallons
- Less 1,320-gallons and no SPCC required
  - Fluid in hydraulic system
  - Oil filled electrical equipment, not contiguous to electric facility



HCS § 25507(b)(4)(A-B)

## **Exemptions – Retail Establishments**

## Consumer product in a retail establishment for direct sale to the 'end user'

- Assembly Bill 2059
  - National Fire Protection Association "NFPA" or Hazardous Material Identification System "HMIS" rating 3 or 4
  - Quantities equal to, or greater than
    - 165-gallons
    - 600-cubic feet
    - 1,500 lbs.

(e.g. propane, hand sanitizer, lighter fluid, muriatic acid)

Impacted: Lowes, Home Depot, Gas Station, Pool Supply

HCS § 25507(b)(5)(A-B)

## Exemptions

- Propane
  - Used for cooking, heating work areas, or heating water
  - NOT to exceed 500-gallons
- Fuel in vehicle
  - Liquid or Gaseous
    - (e.g. Propane on forklifts)
  - Fuel tank integral to operation of vehicle
- Treated Wood
  - Presence of preservative in or on wood
    - Registered with Insecticide, Fungicide, and Rodenticide Act

## **Exemptions – HMBP 201**

#### **NOT** discussed in this presentation

- Agricultural (Farms)
- Unstaffed Facilities
- Batteries
- Supplier of Hazardous Materials (Wholesale)
- Mixtures
- Trade Secrets



HCS § 25507(b)(6)(c-e)

## Spills and Violations



## **Release Reporting**

#### Release or threatened release shall be reported to CUPA and OES

**Report Immediately** 

- Provide access to the facility
- Does NOT apply to transportation on highway

Define 'Release'

 Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into environment.

Define 'Threatened Release'

- Immediate action required
- Prevent, reduce, or mitigate a release

## **Non-Compliance**

#### Release or threatened release shall be reported to CUPA and OES

Fees

- Not more than \$2,000 a day
- Contributes to an emergency (e.g. fire)
  - Full cost of emergency response
  - Cost of clean-up and disposal

'Knowingly' Violates

• Not more than \$5,000 a day

Conviction

- Note more than \$25,000 a day
- Imprisonment in county jail not more than 1 year

## **Authority to Conduct Inspection**

#### UPA has the authority to conduct inspections

Facility

- Premises of handler
  - Within 2,000 ft of premises

Inspections

• At least once every three years



## **Additional Resources**

- California Governor's Office of Emergency Services (CalOES)
  - www.caloes.ca.gov
- California Certified Unified Program Agencies (CalCUPA)
  - www.calcupa.org
- Environmental Protection Agency (EPA)
  - www.epa.gov
- Official California Legislative Information
  - www.legislature.ca.gov
- California Environmental Reporting System (CERS)
  - http://cers.calepa.ca.gov



# Any Questions?

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26th California Unified Program Annual Training Conference February 26-29, 2024