



**RELEASE NOTIFICATION  
REQUIREMENTS IN  
MICHIGAN**

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**Michigan**  
**SARA Title III**  
**Program**  
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**RELEASE NOTIFICATION  
REQUIREMENTS TABLE  
10/27/2009**

[www.michigan.gov/chemrelease](http://www.michigan.gov/chemrelease)

- ***WHAT***
- ***WHEN***
- ***TO WHOM &***
- ***HOW* RELEASES MUST BE REPORTED**

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## WHAT IS A RELEASE?

**SPILL**  
**LEAK**  
**PUMP**  
**POUR**  
**EMIT**  
**EMPTY**

**DISCHARGE**  
**INJECT**  
**ESCAPE**  
**LEACH**  
**DUMP**  
**DISPOSE**



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## ACT & REGULATION

- **FEDERAL = CFR**  
Code of Federal Regulations
- **STATE = PA**  
Public Act
- **OTHER REQUIREMENTS**



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# REPORTING CRITERIA

- SUBSTANCE
- AMOUNT
- MEDIUM
- IMPACT
- SOURCE



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## SARA Title III Section 304 (Pg 6-4)

Reporting Criteria

Release of

- CERCLA Hazardous substance
- Extremely Hazardous Substance (EHS)



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## EPA'S LIST OF LISTS

- CERCLA - Hazardous
  - SARA Title III  
EHS  
Toxic (section 313)
  - CAA - Extremely Hazardous  
Air Pollutant - section 112(r)
- Appendix B – Updated 10/06**



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## LIST OF LISTS

- CAS = Chemical Abstracts Service number
- EHS = Extremely Hazardous Substance
- TPQ = Threshold Planning Quantity
- *RQ = Reportable Quantity*
- CAA = Clean Air Act
- TQ = Threshold Quantity
- *Amounts in POUNDS*

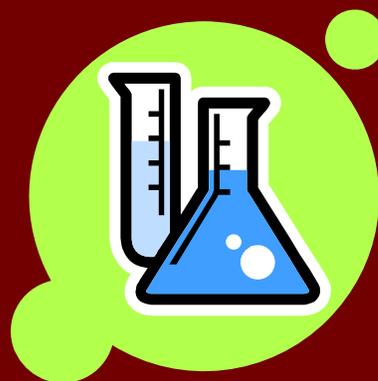
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## LIST OF LISTS

Look up:

Hydrogen Sulfide

CAS = 7783-06-4



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## LIST OF LISTS Hydrogen Sulfide

Section 302 (EHS) TPQ = 500

Section 304 EHS RQ = 100

CERCLA RQ = 100

Section 313 = 313s

RCRA Code = U135

CAA 112(r) TQ = 10,000

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## CHEMICAL LISTS - STATE

➤ **NREPA Part 31**

**Water Resources Protection**

➤ **Part 5 Rules (Appendix C)**

**Spillage of Oil & Polluting Materials**

➤ **Table 1: Polluting Materials (Pg. C-9)**

**TRQ = Threshold Reporting Quantity**

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## POLLUTING MATERIALS LIST

**Look up: Hydrogen Sulfide**

**TRQ = 10 lbs**

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## EXAMPLE 1

### Hydrogen Sulfide Release

When is a release of hydrogen sulfide subject to reporting?



## SARA Title III

### Section 304 (Pg. 6-4)

#### Hydrogen Sulfide Release

- **CERCLA** Hazardous substance
- **Extremely Hazardous Substance (EHS)**

**100 lbs** Hydrogen Sulfide released to the environment and migrates beyond facility boundaries.

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## REGULATIONS THAT REFERENCE CERCLA

SARA Title III sect 304

CERCLA sect 103

NREPA Part 201

49 CFR 171 (Transportation)

CWA sect 311, 33 CFR 153

NREPA Parts 211 & 213

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## REPORTING CRITERIA

A SINGLE RELEASE MIGHT  
BE REPORTABLE  
(ENFORCEABLE)  
UNDER MULTIPLE  
REGULATIONS.



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## NREPA Part 31 (Pg. 6-7)

### Hydrogen Sulfide Release

Polluting Materials (Part 5 Rules,  
Table 1)

**10 lbs** Hydrogen Sulfide  
released to water or sewage  
system



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## REPORTING CRITERIA

- DIFFERENT REGULATIONS CAN HAVE **DIFFERENT REPORTABLE QUANTITIES** FOR THE SAME CHEMICAL.



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## **INITIAL NOTIFICATION – WHEN ?**

**Immediate**  
**Within 24 hours**  
**As soon as practicable**  
**As soon as practical**  
**Promptly**  
**As soon as possible**  
**Within 8 hours**  
**Earliest practicable moment**

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## **INITIAL NOTIFICATION \* Worst Case \***

**IMMEDIATE  
MEANS  
WITHIN 15 MINUTES  
AFTER  
DISCOVERY OF THE  
RELEASE**

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## INITIAL NOTIFICATION – TO WHOM ?

LEPC

SERC

NRC

DEQ-RRD (and other divisions)

PEAS

MDA

DELEG

911

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## BOTTOM LINE

If there is a release,  
**IMMEDIATELY** notify:

- **LOCAL** – 911
- **STATE** – PEAS
- **FEDERAL** – NRC



Then assess the situation and  
make additional notifications  
as required.

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**REMEMBER TO KISS !**

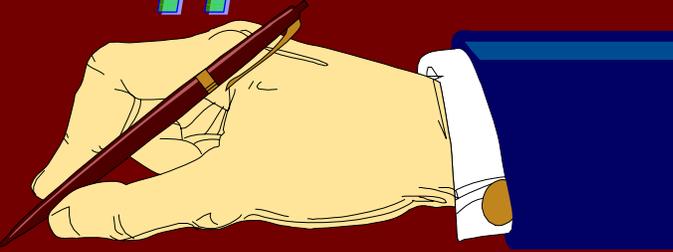
**THERE ARE NO PENALTIES FOR OVER-REPORTING !**

A cartoon illustration of a man and a woman in business attire kissing. The man is on the left, wearing a grey suit and white shirt, with his arms around the woman. The woman is on the right, wearing a grey skirt and white top, holding a briefcase. They are surrounded by white circles and musical notes, suggesting a celebratory or romantic atmosphere.

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**INITIAL NOTIFICATION**

**DOCUMENT IT**

An illustration of a hand holding a pen, ready to write. The hand is yellow, and the pen is dark red. The hand is wearing a blue sleeve with a white cuff. The background is dark red.

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## WRITTEN FOLLOW-UP REPORT

### REQUIRED BY REGULATION

- Specified Form
- Specified Information

MDEQ general form:

**"Spill or Release Report" (Pg. 6-13)**

**Also use to document initial notification**



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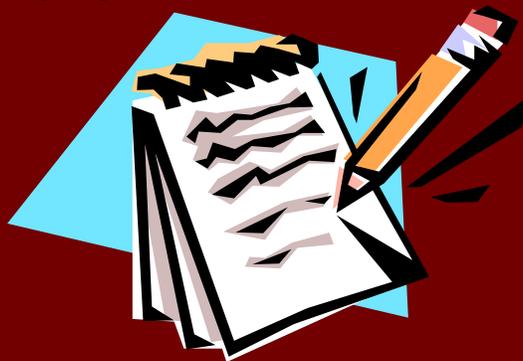
## WRITTEN FOLLOW-UP REPORT

**AS SOON AS PRACTICABLE  
MEANS  
WITHIN 7 DAYS  
AFTER  
DISCOVERY OF THE  
RELEASE**

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## NOTES

PHONE NUMBERS  
CONTACTS



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## EXAMPLE 2

**A facility  
accidentally  
released 100 gal  
of chlorine bleach  
into a drain that  
emptied into a  
lake.**

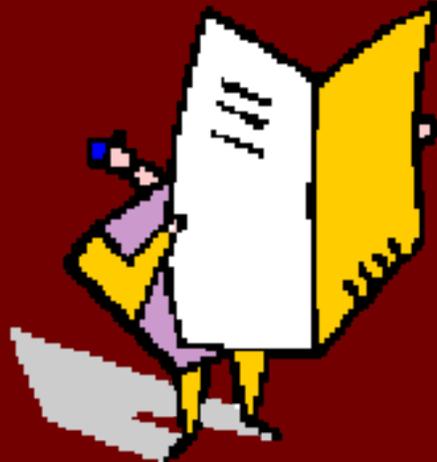


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## EXAMPLE 2

### Chlorine Bleach Release

The MSDS for  
Chlorine  
Bleach is in  
your handouts



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## EXAMPLE 2

### 1. Notify

- 911
- PEAS
- NRC

### 2. Respond

### 3. Follow-up

- Investigate
- Calculate
- Report



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## EXAMPLE 2

### Calculate Release

1. Identify the hazardous ingredients and weight % in Chlorine Bleach
2. Calculate the weight of the released Chlorine Bleach.
3. Calculate the weight of the released hazardous ingredients.
4. Compare to Reportable Quantity (RQ).  
(The RQ depends on the regulation.)

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## 1. Identify hazardous ingredients in Chlorine Bleach

**Sodium Hypochlorite**

CAS = 7681-52-9

Weight % = 15% (0.15)



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## 2. Calculate weight of Chlorine Bleach

$$\begin{aligned} & \mathbf{100 \text{ gal of Chlorine Bleach}} \\ & \quad \times \\ & \text{Specific Gravity (relative density) on MSDS: } \mathbf{1.21} \\ & \quad \times \\ & \text{Weight of water: } \mathbf{8.34 \text{ lbs/gal}} \\ & \quad = \\ & \text{Chlorine Bleach released: } \mathbf{1009 \text{ lbs}} \end{aligned}$$

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## 3. Calculate the weight of the released hazardous ingredients

Sodium Hypochlorite = 15% of 1009 lbs

$$\begin{aligned} 0.15 \times 1009 \text{ lbs} &= \\ \mathbf{151.4 \text{ lbs}} & \end{aligned}$$



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## 4. Compare to the RQ

**Sodium Hypochlorite**

**CAS = 7681-52-9**

**Released amount = 151.4 lbs**

**CERCLA RQ = 100 lbs**

**SARA EHS RQ = N/A**

**SARA Toxic? NO**

**Part 5 Rules TRQ = 10 lbs**

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## What Regulations Apply to the Release of Chlorine Bleach?

**SARA Title III sect 304**

**CERCLA sect 103**

**NREPA Part 201**

**Fire Prevention Code sect 29.5g**

**NREPA Part 31, Part 5 Rules**

**CWA sect 311 (33 CFR 153)**

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## IMPORTANT !

**ALL RELEASES  
MUST BE  
CLEANED UP**

**– even if not  
reportable.**



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## Test 1

During a wind storm, a tree fell on the only fuel tank at your facility, a 600 gal AST, spilling approximately 300 gallons of gasoline onto the ground. Your employees were able to recover about 100 gallons before it seeped into the ground.

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## Test 1

### 1. Who should you call?

- **911**
- **PEAS**
- **NRC**

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## Test 1

### 2. How many pounds of gasoline were released to the environment?

**300 gal** of Gasoline

X

Specific Gravity on MSDS: **0.75**

X

Weight of water: **8.34 lbs/gal**

=

Gasoline Released: **1877 lbs**

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## Test 1

3. How many pounds of benzene were released to the environment?

$$\begin{array}{r} 1877 \text{ lbs gasoline} \\ \times \\ 5\% (0.05) \text{ benzene} \\ = \\ 94 \text{ lbs benzene} \end{array}$$

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## Test 1

4. What is the CERCLA RQ for benzene?

10 lbs

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## Test 1

### 5. What regulations apply?

- **NREPA Part 201**
- **Fire Prevention Code Sect 29.5g**
- **Fire Prevention Code Part 2 of Storage & Handling...**

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## Test 1

### 6. Why is this release not reportable under SARA Title III sect 304 or CERCLA sect 103?

**The petroleum exclusion (Pg. 6-2)**

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## Test 1

**7. Why is this release not reportable under the Part 5 Rules?**

**Facility is not subject to the Part 5 Rules because it does not meet definition of an oil storage facility:**

**Rule 2 (f)(iii) on Pg C-3**

**≥ 1320 gal total "oil" *OR***

**> 660 gal single tank capacity**

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## Test 2

**A textile company had a release of 860 gallons of sodium hydroxide solution to the soil. Of this, 15% reached the river.**

**The MSDS is in your handouts.**

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## Test 2

### 1. Who should you call?

- **911**
- **PEAS**
- **NRC**

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## Test 2

### 2. How many pounds of sodium hydroxide solution were released to the soil?

$$\begin{array}{r} 860 \text{ gal of NaOH Solution} \\ \times \\ \text{Specific Gravity on MSDS: } 1.52 \\ \times \\ \text{Weight of water: } 8.34 \text{ lbs/gal} \\ = \\ \text{NaOH Solution Released: } 10902 \text{ lbs} \end{array}$$

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## Test 2

3. How many pounds of sodium hydroxide were released to the soil?

$$\begin{array}{r} 10902 \text{ lbs NaOH solution} \\ \times \\ 50\% (0.5) \text{ NaOH} \\ = \\ 5451 \text{ lbs NaOH} \end{array}$$

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## Test 2

4. How many pounds of sodium hydroxide reached the river?

$$\begin{array}{r} 5451 \text{ lbs NaOH released to soil} \\ \times \\ 15\% (0.15) \text{ reached the river} \\ = \\ 817.7 \text{ lbs NaOH reached the river} \end{array}$$

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## Test 2

5. Complete the following for sodium hydroxide.

CAS No. = 1310-73-2

CERCLA RQ = 1000 lbs

SARA EHS RQ = none

Part 5 Rules TRQ = 100 lbs

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## Test 2

6. What regulations apply?

- SARA sect 304
- CERCLA sect 103
- NREPA Part 201
- Fire Prevention Code sect 29.5g
- NREPA Part 31, Part 5 Rules

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## Test 2

### *Post script*

**This company reported the release 2 days after it was discovered. The proposed penalty for late reporting and violating the NPDES permit regulations was \$38,540.**

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