



Hazard Communication Aligned with GHS



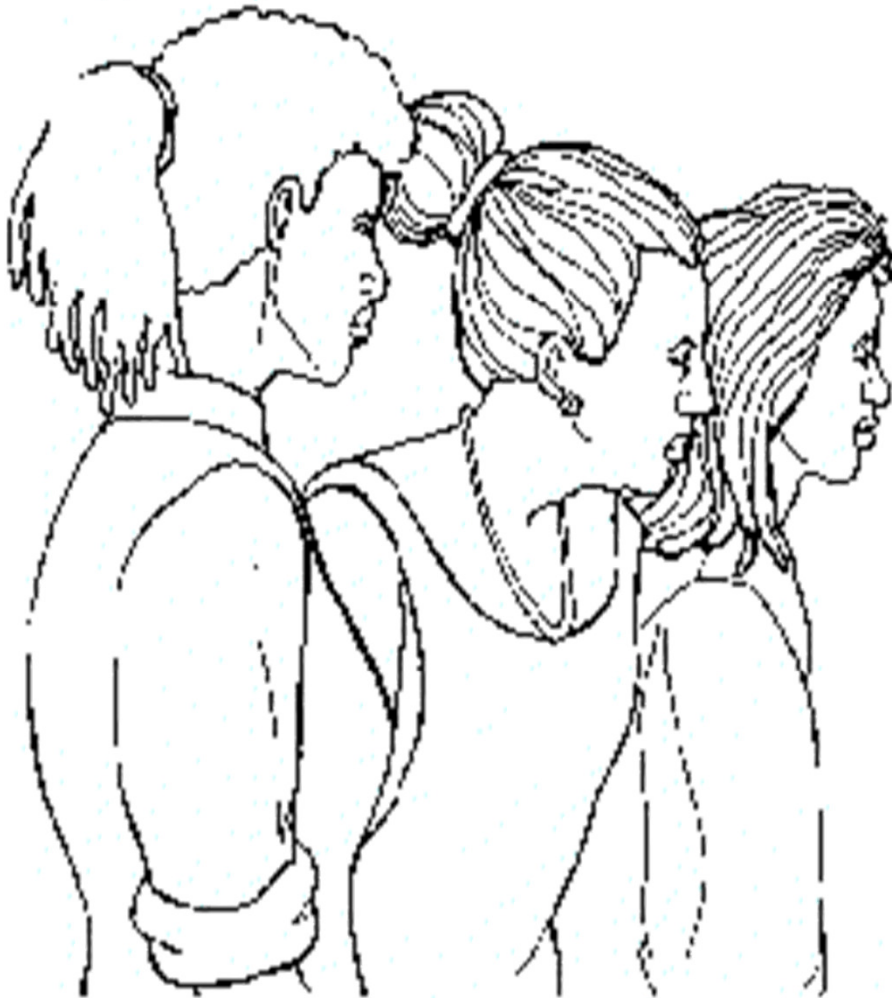
**Please put phones on
silent mode**

Thank you





HAZCOM's FOUR PARTS





WHAT IS A CHEMICAL?

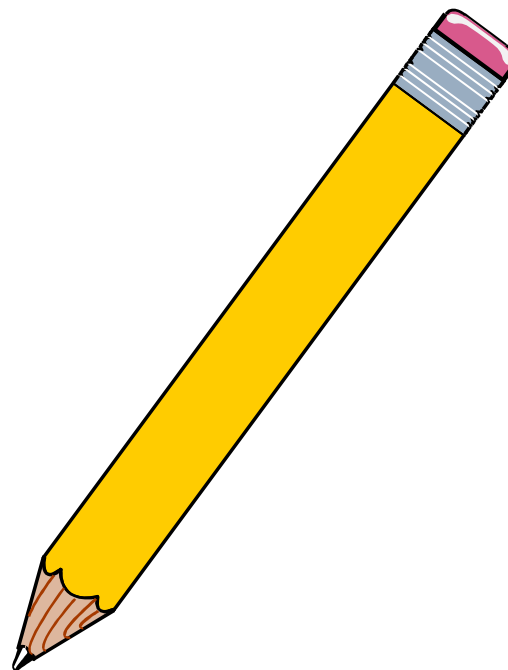


WHAT IS A **HAZARDOUS** CHEMICAL?



WHAT WOULD YOU DO?

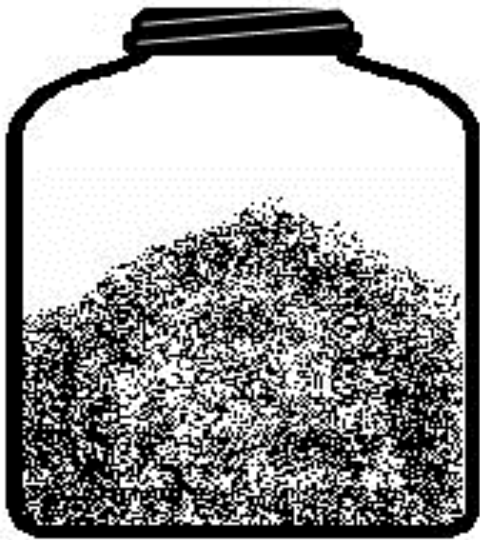
Practice



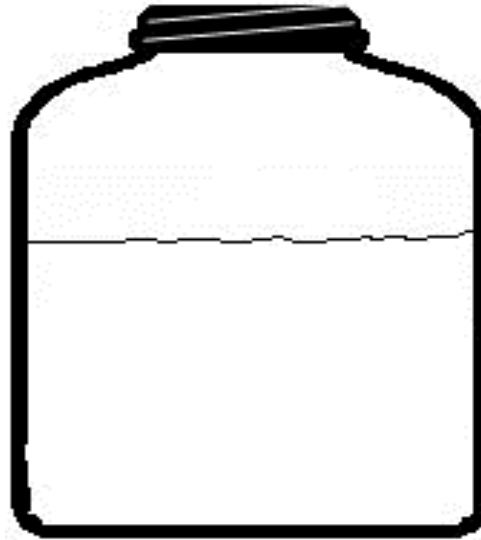
EMERGENCY EXPOSURES



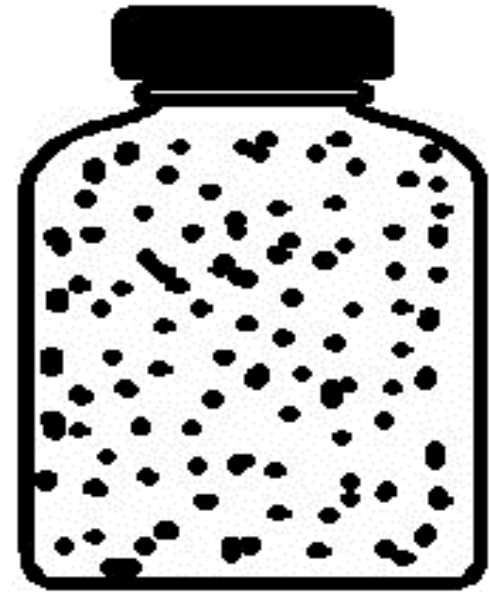
STATES OF MATTER



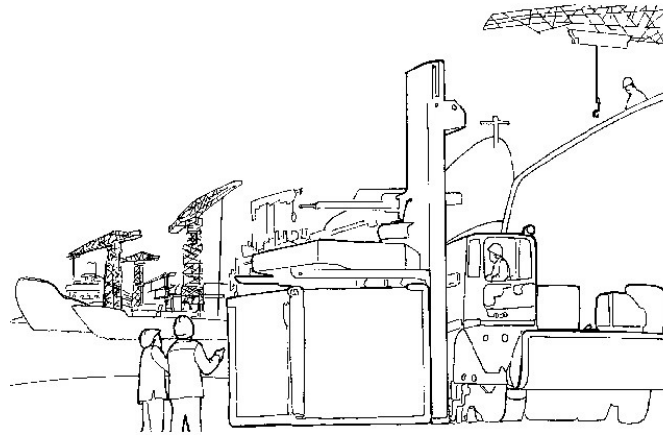
SOLID



LIQUID



GAS



**“The dose makes
the poison”**

Paracelsus



ROUTES OF ENTRY

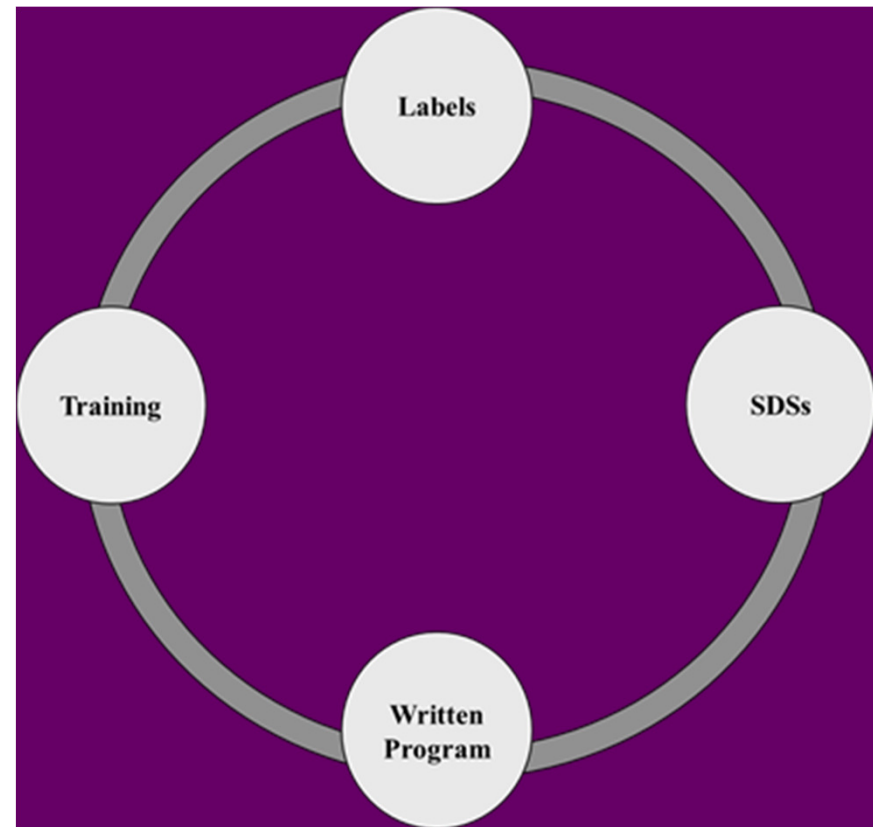
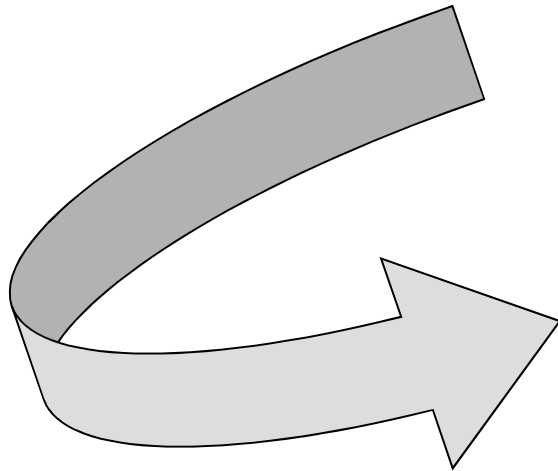


Information about
chemicals and
target organs.





How HazCom Works





ARE ALL CHEMICALS COVERED?





DISCUSSION



WAREHOUSES RETAIL STORES



LABS



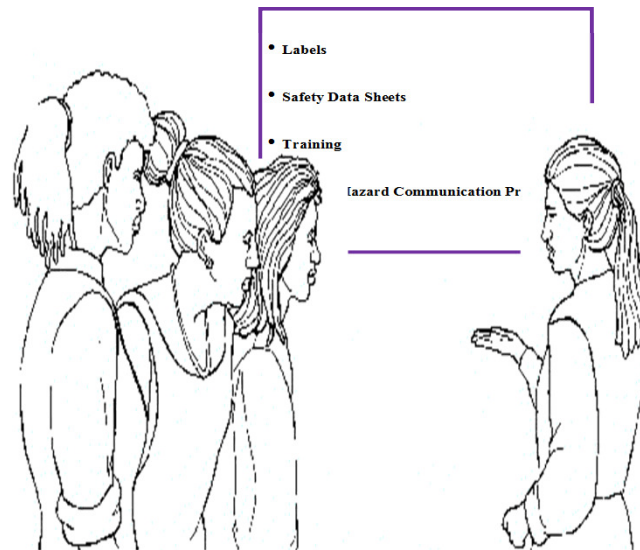


GHS

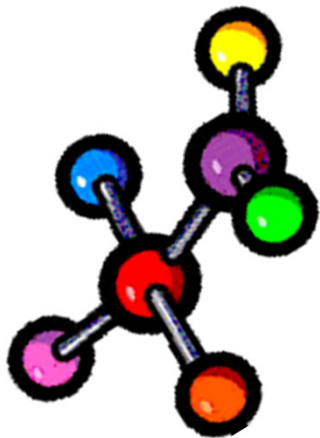




ADVANTAGES



**CLASSIFY
AND
CATEGORIZE
THIS**



AND GET THIS

Oatey Lo VOC

Material Name: OATEY PVC REGULAR CLEAR - LO VOC FORMULA

*** Section 1 - Product and Company Identification ***


UNCL #1100
Part Numbers: Clear - 31012, 31013, 31014, 31015, 31016, 31958, 31959, 31960, 31961

Manufacturer Information
Oatey Co.
4700 West 100th Street
Cleveland, OH 44135

Phone: 216-267-7100
For Emergency First Aid call 1-877-343-0515. For chemical transportation emergencies (HazMat), call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3807.

*** Section 2 - Hazards Identification ***

GHS Classification:
Harmful to Aquatic Life - Category 2
Acute Toxicity Oral - Category 4
Acute Toxicity Dermal - Category 4
Acute Toxicity Inhalation - Category 4
Eye Damage/Irritation - Category 2A
Carcinogenicity - Category 2
Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS
Symbol(s)


Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor.
Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.

S EPA as a suspected possible carcinogen.

Date: 9/20/12 Revision: 1.0000 Print Date: 9/27/2012

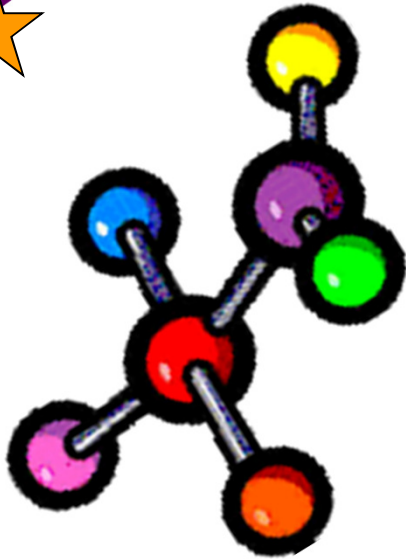


**LABEL, SDS, AND
TRAINING ON SAFE USE**

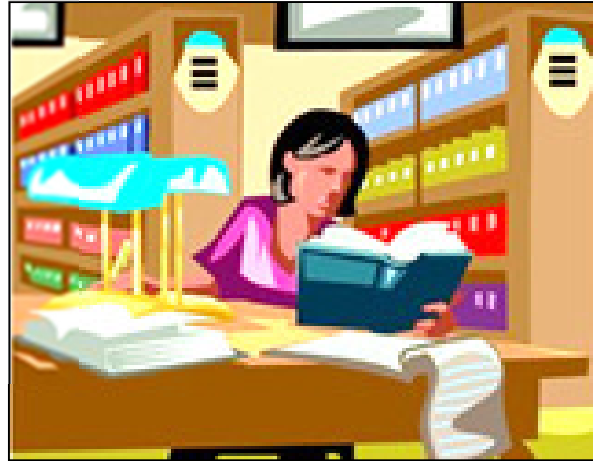
WHO IS RESPONSIBLE TO CLASSIFY & CATEGORIZE

Answer: A





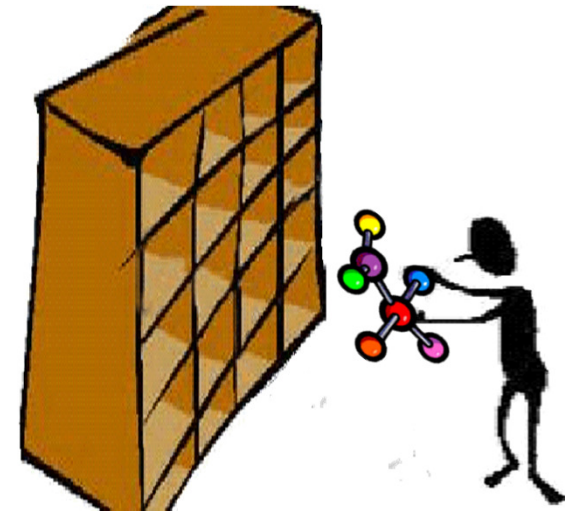
HOW IT WORKS



CLASSIFY

AND

CATEGORIZE

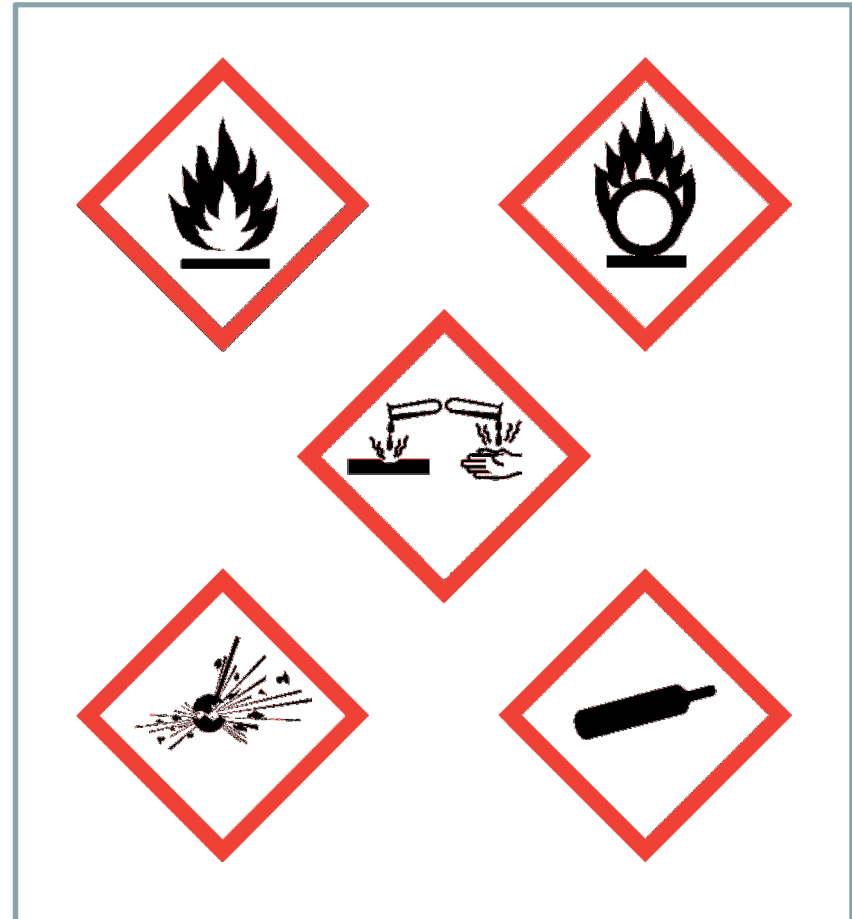




Appendix A & B

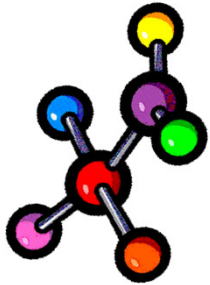


**The Health
Hazard
Pictograms**



**The Physical
Hazard
Pictograms**

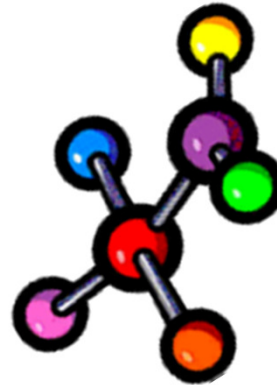
CLASSIFY & CATEGORIZE Oatey PVC Glue



| CLASS | CATEGORY |
|--|-------------|
| Acute Toxicity Oral | Category 4 |
| Acute Toxicity Dermal | Category 4 |
| Acute Toxicity Inhalation | Category 4 |
| Eye Damage/Irritation | Category 2A |
| Carcinogenicity | Category 2 |
| Specific Target Organ Toxicity Single Exposure | Category 3 |
| Flammable Liquids | Category 2 |



| CLASS | CATEGORY |
|--|-------------|
| Acute Toxicity Oral | Category 4 |
| Acute Toxicity Dermal | Category 4 |
| Acute Toxicity Inhalation | Category 4 |
| Eye Damage/Irritation | Category 2A |
| Carcinogenicity | Category 2 |
| Specific Target Organ Toxicity Single Exposure | Category 3 |
| Flammable Liquids | Category 2 |



DONE!



Label

Oatey Low VOC

Material Name: OATEY PVC REGULAR CLEAR - LO-VOC FORMULA

*** Section 1 - Product and Company Identification ***

MSDS #1100E
Part Numbers: Clear - 31012, 31013, 31014, 31015, 31016, 31958, 31959, 31960, 31961

Manufacturer Information
Oatey Co.
4700 West 162nd Street
Cleveland, OH 44135
Phone: 216-267-7100
For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtec at 1-800-424-9300. Outside the U.S. 1-703-627-3887.

*** Section 2 - Hazards Identification ***

GHS Classification:
Flammable Liquids - Category 2
Acute Toxicity Oral - Category 4
Acute Toxicity Dermal - Category 4
Acute Toxicity Inhalation - Category 4
Eye Damage/Irritation - Category 2A
Carcinogenicity - Category 2
Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS
Symbol(s)

Signal Word
Danger

Hazard Statements
Highly flammable liquid and vapor.
Harmful if swallowed.
Harmful in contact with skin.
Harmful if inhaled.
Causes serious eye irritation.
Contains a chemical classified by the US EPA as a suspected possible carcinogen.
May cause respiratory irritation.
May cause drowsiness or dizziness.

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SDS



Training



Appendix A: Categorize a Health Effect

Acute toxicity (any route of exposure)

Skin corrosion/irritation

Serious eye damage or eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Aspiration toxicity





Appendix B: Categorize a Physical Effect

Explosive

Flammable (includes aerosols, gases, liquids, and solids)

Oxidizers (includes gases, liquids, and solids)

Gases under pressure

Self-reactive substances

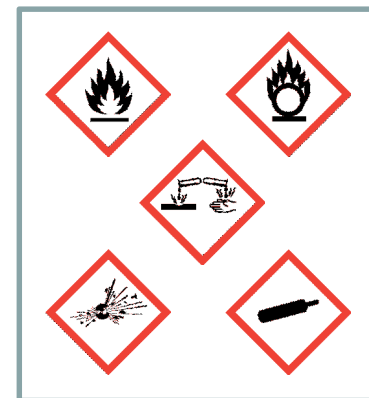
Pyrophoric (includes liquids and solids)

Self-heating substances

Substances that emit flammable gases in contact with water

Organic peroxides

Corrosive to metals





PICTOGRAM PARTS

BORDER

- BLACK
- RED
- GREEN

BACKGROUND

- YELLOW
- BLUE
- WHITE

SYMBOL

- ORANGE
- BRIGHT GREEN
- BLACK





PICTOGRAMS





LABELS



SAMPLE LABEL

CODE _____
 Product Name _____ } **Product Identifier**

Company Name _____
 Street Address _____
 City _____ State _____
 Postal Code _____ Country _____ } **Supplier Identification**
 Emergency Phone Number _____

Keep container tightly closed. Store in a cool, well-ventilated place that is locked.
 Keep away from heat/sparks/open flame. No smoking.
 Only use non-sparking tools.
 Use explosion-proof electrical equipment.
 Take precautionary measures against static discharge.
 Ground and bond container and receiving equipment.
 Do not breathe vapors.
 Wear protective gloves.
 Do not eat, drink or smoke when using this product.
 Wash hands thoroughly after handling.
 Dispose of in accordance with local, regional, national, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon Dioxide (CO₂) fire extinguisher to extinguish.

First Aid
 If exposed call Poison Center.
 If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water.

Hazard Pictograms

Signal Word
Danger

Highly flammable liquid and vapor.
 May cause liver and kidney damage. } **Hazard Statements**

Precautionary Statements

Supplemental Information

Directions for Use









Fill weight: _____ Lot Number: _____
 Gross weight: _____ Fill Date: _____
 Expiration Date: _____

PICTOGRAMS





Pictogram Game

| | | | |
|-------|-------------------------------------|---|----------|
| _____ | Flammables |  | A |
| _____ | Narcotic effects | | |
| _____ | Oxidizers |  | B |
| _____ | Self reactives | | |
| _____ | Self-heating | | |
| _____ | Irritant |  | C |
| _____ | Organic peroxides | | |
| _____ | Explosives |  | D |
| _____ | Gases under pressure | | |
| _____ | Carcinogen |  | E |
| _____ | Dermal sensitizer | | |
| _____ | Acute toxicity (harmful) | | |
| _____ | Respiratory tract irritation |  | F |
| _____ | Self Reactives | | |
| _____ | Corrosives |  | G |
| _____ | Respiratory sensitizer | | |
| _____ | Reproductive toxicity | | |
| _____ | Target organ toxicity |  | H |
| _____ | Mutagen | | |



LABELS

Primary

Secondary

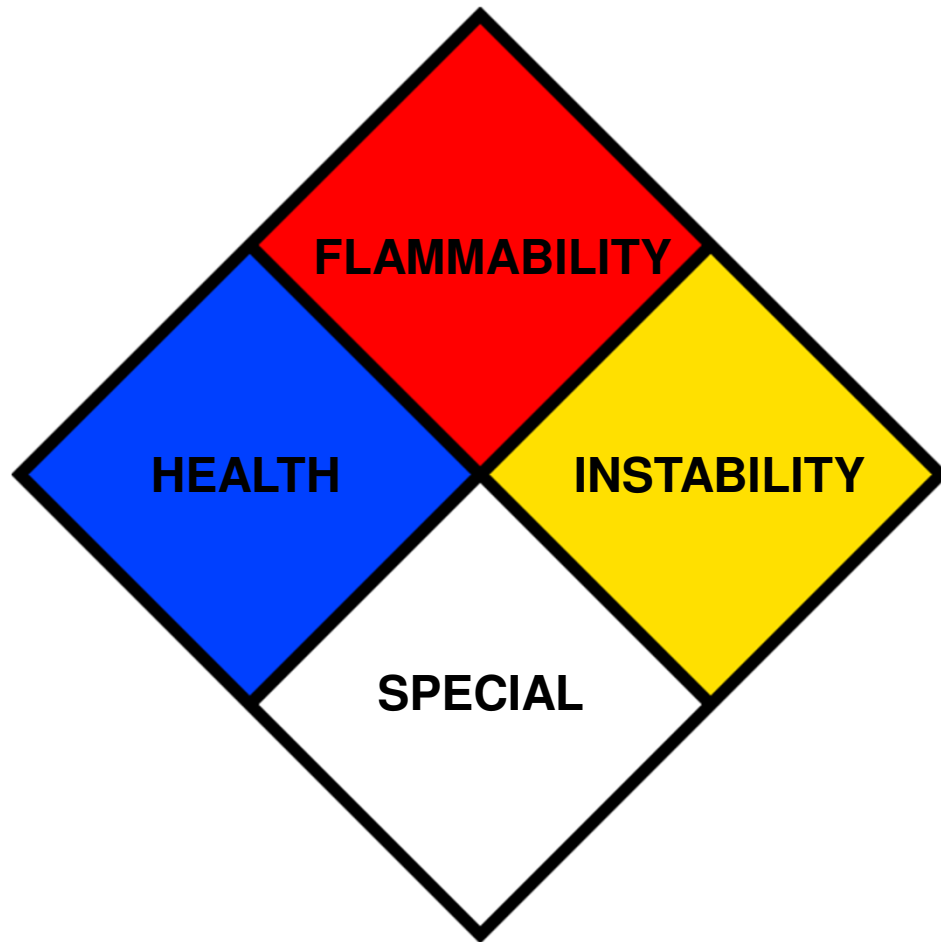
Stationary

Portable

Pipes



NFPA 704



HMIS

| | |
|-----------------------|---------------------|
| SUBSTANCE IDENTITY | |
| <input type="radio"/> | HEALTH |
| <input type="radio"/> | FLAMMABILITY |
| <input type="radio"/> | REACTIVITY |
| <input type="radio"/> | PERSONAL PROTECTION |
| HEALTH HAZARDS | |



SAFETY DATA SHEETS

KEY PARTS

EMERGENCY TOOL

ROUTES OF ENTRY

PHYSICAL AND HEALTH EFFECTS

PERSONAL PROTECTIVE EQUIPMENT

PICTOGRAM(S) AND SIGNAL WORD

SDS REVIEW

THE 16 ELEMENTS

Oatey[®]

Lo-VOC
Standard 1294/1295
Compliant

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

*** Section 1 - Product and Company Identification ***

MSDS #1100E
Part Numbers: Clear - 31012, 31013, 31014, 31015, 31016, 31958, 31959, 31960, 31961

Manufacturer Information

Oatey Co.
4700 West 160th Street
Cleveland, OH 44135

Phone: 216-267-7100

For Emergency First Aid call 1-877-740-5015. For chemical transportation emergencies ONLY, call Chemtrec at 1-800-424-9300. Outside the U.S. 1-703-527-3887.


*** Section 2 - Hazards Identification ***

GHS Classification:

- Flammable Liquids - Category 2
- Acute Toxicity Oral - Category 4
- Acute Toxicity Dermal - Category 4
- Acute Toxicity Inhalation - Category 4
- Eye Damage/Irritation - Category 2A
- Carcinogenicity - Category 2
- Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS

Symbol(s)



Signal Word
Danger

Hazard Statements

- Highly flammable liquid and vapor.
- Harmful if swallowed.
- Harmful in contact with skin.
- Harmful if inhaled.
- Causes serious eye irritation.
- Contains a chemical classified by the US EPA as a suspected possible carcinogen.
- May cause respiratory irritation.
- May cause drowsiness or dizziness.

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PESTICIDES SECTION 15



GHS



EPA



WRITTEN PROGRAM

CHEMICALS LIST

LABELING

SAFETY DATA SHEETS

TRAINING

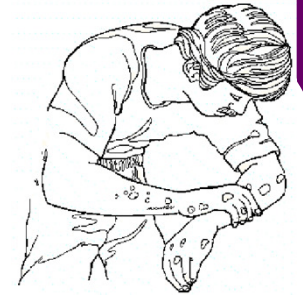
HAZARDOUS NON-ROUTINE TASKS

CHEMICALS IN PIPES

CONTRACTORS



CHEMICALS LIST



**Required
Column**

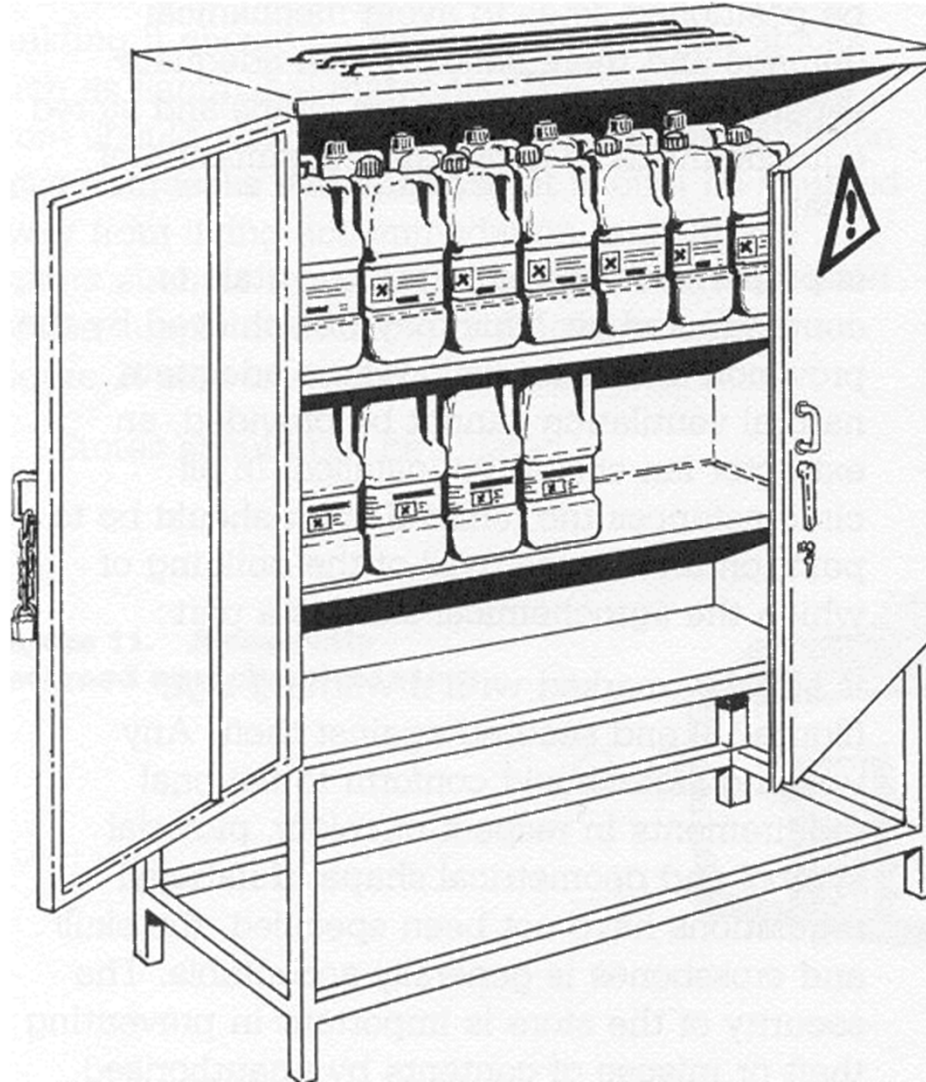
**Recommended
Column**

**Recommended
Column**

| PRODUCT IDENTIFIER | SIGNAL WORD | LOCATION OF USE |
|--------------------------------------|--------------------|--------------------------|
| Chevron Regular Gasoline | Danger | Shop and Trucks |
| Oatey PVC Glue | Danger | Pipe Installation |
| Bestine Solvent & Thinner | Danger | Shop |
| Armstrong Floor Polish | Warning | Gymnasium |



DISCUSSION



WRITTEN PROGRAM

CHEMICALS LIST

LABELING

SAFETY DATA SHEETS

TRAINING

HAZARDOUS NON-ROUTINE TASKS

CHEMICALS IN PIPES

CONTRACTORS





WRITTEN PROGRAM LINKS

There are several active links on this page.

The screenshot shows the Oregon OSHA website header with the logo for the Department of Consumer Business & Services. A navigation menu on the left includes links for Department, Contact Us, About Us, File a Complaint, Spanish Español, and A-Z Topic List. The A-Z Topic List link is circled in blue. An arrow points from this link to the A-Z Topic Index section, which contains a 'Jump to:' list of letters from A to Z. The letter 'G' is circled in blue. Another arrow points from the 'G' link down to a box containing word documents.

WORD DOCUMENTS

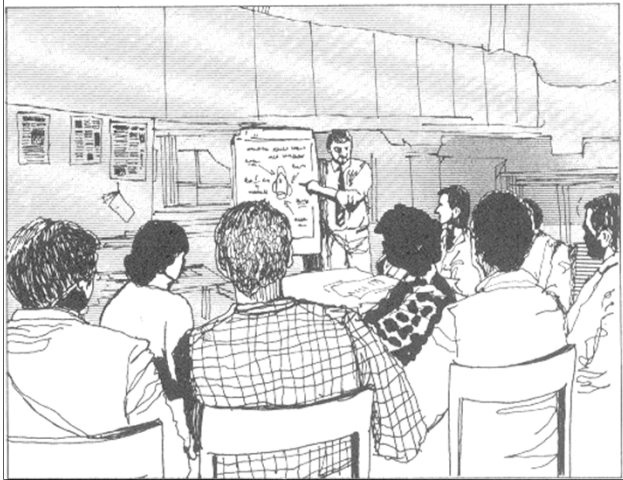
Hazard Communication Plan in either [English](#) or [Spanish](#)

HazCom training form in either [English](#) or [Spanish](#)

Employee training record in either [English](#) or [Spanish](#)



TRAINING

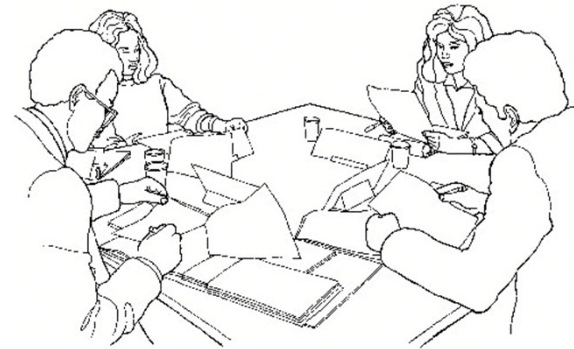


TRAINING – What needs to be explained?





TRAINING PRACTICE



- **HEALTH AND PHYSICAL HAZARDS**
- **CONTROLS AND PPE**
- **EMERGENCY PROCEDURES**

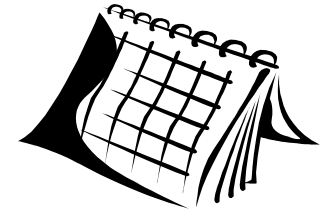


Phase-in Dates
Hazard Communication Standard (HCS) 29 CFR 1910.1200

| Completion Date | Requirement(s) | Who |
|---|---|--|
| December 1, 2013 | Train employees on the new label elements and safety data sheet (SDS) format. | Employers |
| June 1, 2015 December 1, 2015 | Compliance with all modified provisions of this final rule, except: The Distributor shall not ship containers labeled by the chemical manufacturer or importer unless it is a GHS label. | Chemical manufacturers, importers, distributors and employers |
| June 1, 2016 | Update alternative workplace labeling and hazard communication program as necessary, and provide additional employee training for newly identified physical or health hazards. | Employers |
| Transition period to the effective completion dates noted above | May comply with either the revised Hazard Communication Standard 29 CFR 1910.1200 (the final standard), or the current standard, or both. | Chemical manufacturers, importers, distributors, and employers |



DECEMBER 1, 2015



**IF EMPLOYERS PURCHASE
NON GHS-ALIGNED PRODUCTS
BEFORE DECEMBER 1, 2015, THERE IS
NO TIME LIMIT FOR THE EMPLOYER TO
USE IT UP. (Keep the receipt.)**



APPENDICES

There are several active links on this page.

- [FEDERAL OSHA DECEMBER 1, 2013 TRAINING REQUIREMENTS FACT SHEET](#)
- [FEDERAL OSHA GHS QUICK CARDS](#)
- [NFPA QUICK CARD](#)
- **PICTOGRAM QUIZ**
- [SAFETY DATA SHEET – OATEY PVC REGULAR CLEAR – LO-VOC FORMULA](#)



Pictograms Game

Please write the appropriate letter for the pictogram that corresponds to each chemical category.

| | | |
|------------------------------------|--|---|
| _____ Flammable | | A |
| _____ Narcotic effects | | B |
| _____ Oxidizers | | C |
| _____ Self-reactives | | D |
| _____ Irritant | | E |
| _____ Organic peroxides | | F |
| _____ Explosives | | G |
| _____ Gases under pressure | | H |
| _____ Cartridges | | |
| _____ Dermal corrodent | | |
| _____ Acute toxicity (harmful) | | |
| _____ Respiratory tract irritation | | |
| _____ Self-Reactives | | |
| _____ Corrosives | | |
| _____ Respiratory sensitizer | | |
| _____ Reproductive toxicity | | |
| _____ Target organ toxicity | | |
| _____ Mixtures | | |

Oatey

Material Name: OATEY PVC REGULAR CLEAR – LO-VOC FORMULA

*** Section 1 - Product and Company Identification ***

MSDS #1190E
Part Numbers: Clear: 31012, 31013, 31014, 31015, 31016, 31016, 31056, 31060, 31060, 31061

Manufacture Information
Oatey Co. Phone: 216-267-7100
4515 West 105th Street
Cleveland, OH 44115 For Emergency First Aid call 1-877-746-0215. For product information emergencies ONLY call Oatey at 1-800-441-3300. Outside the U.S. 1-703-627-0867

*** Section 2 - Hazards Identification ***

GHS Classification:
Flammable Liquid - Category 2
Acute Toxicity Oral - Category 4
Acute Toxicity Dermal - Category 4
Acute Toxicity Inhalation - Category 4
Eye Damage Irritation - Category 2A
Corrosivity - Category 2
Specific Target Organ Toxicity Single Exposure - Category 3

GHS LABEL ELEMENTS
Symbol(s)

Signal Word
Danger



HELP? QUESTIONS?

There is an
active link on
this page.



OR-OSHA TECHNICAL SECTION

**Salem Central Office:
(800) 922-2689 or
(503) 378-3272**

**Kathleen Kincade
Dave McLaughlin
Tom Bozicevic
Jeff Wilson
Bryon Snapp**

Web Site: www.orosha.org



There is an active link on this page.

Workplace Safety & Health Conferences

Oregon GOSH Conference (biennial) • Portland

Cascade Conference (biennial) • Eugene

Blue Mountain Conference • Pendleton

Central Oregon Conference • Redmond

Southern Oregon Conference • Medford

Mid-Oregon Construction Safety Summit • Redmond

Western Pulp & Paper Workers Conference • Portland

Region X VPPPA Conference • Moves annually between Oregon, Washington, Idaho, and Alaska

Find conference information at

orosha.org/conferences

Oregon Zoo

There is an active link on this page.

