

Western Nevada Operations (WNOP)

Group:	Site Safety Procedure	Procedure #:	WNOP-SAF-SSP-03	
Title:	HAZARDOUS COMMUNICATIONS and SDS/MSDS		Revision:	7
Approval:	See approval signature on WNO SSP Index	Date:	08/31/2013	Page: 1 of 21

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1. PURPOSE

- 1.1** The purpose of this procedure is to prevent worker injury and minimize exposure to chemicals by evaluating all chemicals used and ensuring the hazards associated with chemicals communicated to employees.
- 1.2** This procedure has been established to:
 - 1.2.1** Provide guidelines for chemical lists at each Western Nevada Operations site/facility.
 - 1.2.2** Provide direction on the use, maintenance and archiving of Safety Data Sheets/Material Safety Data Sheets (SDS/MSDS).
 - 1.2.3** Provide guidance on labeling of containers, vessels and piping.
 - 1.2.4** Ensure proper handling and storage of hazardous chemicals.
 - 1.2.5** Outline minimum training standards for all Ormat employees and contractors.
 - 1.2.6** Ensure compliance with the requirements of OSHA's HAZCOM regulations (29 CFR 1910. 1200)

2. SCOPE

- 2.1** This Procedure applies to all personnel working at any Western Nevada Operations site/facilities to include but not limited to:
 - 2.1.1** Brady/Desert Peak 2
 - 2.1.2** Steamboat/Steamboat Hills

3. RESPONSIBILITIES

- 3.1** The responsibility for following this procedure is binding upon all employees, temporary employees, and contractors. Willful violation of this procedure will result in disciplinary action up to and including termination.
- 3.2 Plant Manager**
 - 3.2.1** Has overall responsibility of the HAZCOM Procedure at his/her respective facility.
- 3.3 Operations and Maintenance Manager(s)**
 - 3.3.1** Administer and enforce the HAZCOM Procedure.

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3.3.2 Ensure personnel and equipment resources provided to meet the objectives of the HAZCOM Procedure.

3.4 Safety Position (when filled)

3.4.1 Ensure that all personnel involved, trained in the requirements of the HAZCOM procedure.

3.4.2 Ensure employees receive HAZCOM and Right-to-Know training annually.

3.4.3 Ensure employees receive training on locating and interpreting SDS/MSDS.

3.4.4 Ensure employees receive training on new chemicals entering the workplace.

3.4.5 Train contractors on Western Nevada Operations HAZCOM policies and procedures.

3.4.6 Communicate protective measures that employees must take to avoid exposure to hazardous chemicals.

3.4.7 Oversee the management and maintenance of SDS/MSDS files/online resource.

3.4.8 Performs or ensures a PPE assessment performed for each job task where hazardous chemicals used.

3.4.9 Ensure the evaluation of all hazards presented by any new chemical(s) prior to it entering the workplace.

3.4.10 Maintains and updates this procedure as needed.

3.4.11 Maintain and update the site hazardous chemical list.

3.5 Compliance Specialist

3.5.1 Communicate with regulatory agencies when there is a release, spill, exposure or contamination event.

3.5.2 Report onsite chemical inventory to Federal, State, and Local regulatory/response agencies as required by Emergency Planning and Community Right-to-Know Act (EPCRA).

3.5.3 Maintain and update the site hazardous chemical list.

3.6 Supervisors

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- 3.6.1** Ensures employees comply with the requirements of this procedure.
- 3.6.2** Communicate any spill, release, exposure, or contamination event to plant management and/or Compliance Specialist immediately.

3.7 Receiving/Warehouse Personnel

- 3.7.1** Compares chemical received with bill of lading to ensure that all paperwork matches the chemical received.
- 3.7.2** Follows all receiving procedures for each chemical received.
- 3.7.3** Ensures that all received chemicals have a matching SDS/MSDS provided either prior to, or along with the chemical being received.
- 3.7.4** Send new or updated SDS/MSDS to the Compliance Specialist and/or Safety Position to allow for evaluation of hazards, and updating paper and online resources.
- 3.7.5** Ensures that the chemical is properly labeled when received, or rejects the chemical.
- 3.7.6** Ensures that all received chemicals stored in their proper location.

3.8 Employees

- 3.8.1** Comply with the chemical safety requirements of the site written program.
- 3.8.2** Only use chemicals for which they have received training.
- 3.8.3** Use all chemicals in accordance with their designated purpose.
- 3.8.4** Properly label portable containers and verify proper labeling on permanent containers.
- 3.8.5** Ensure hazardous chemical containers are properly stored, segregated, cleaned, or disposed of after use.
- 3.8.6** Report any problems with storage or use of chemicals to immediate supervisor and/or Shift Supervisor.
- 3.8.7** Immediately report spills, leaks, or other issues related to hazardous chemicals to immediate supervisor and the Control Room.
 - 3.8.7.1** Take no action beyond diking and damming of the spill area.
- 3.8.8** Know where to find and how to properly interpret a SDS/MSDS or seek additional information from your immediate supervisor.

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3.8.9 Know the location of first aid supplies, showers, and eyewash stations. Understand how to administer first aid to persons exposed to hazardous chemicals.

3.9 Contractors

3.9.1 Review chemicals to be brought on site with Contractor Coordinating Employee and provide a SDS/MSDS for each chemical as specified by the Contractor Coordinating Employee.

3.10 Contractor Coordinating Employee

3.10.1 Review the chemicals brought on site with Safety Position and/or Compliance Specialist to determine any special precautions required.

3.10.2 Conduct training with on-shift personnel as needed for new hazards presented by the chemicals brought on site by contractors. Ensure that information is entered into the shift turn over.

4. TRAINING

4.1 All Ormat personnel shall receive initial training as it relates to their duties under the HAZCOM Procedure. Refresher training for all personnel shall be conducted at least annually or when:

4.1.1 During their initial safety indoctrination prior to starting work in the plants.

4.1.2 There is a significant change in job assignment, policy, procedure, SDS/MSDS information, or chemicals used on site.

4.1.3 A change in equipment/systems that presents a new hazard.

4.1.4 There are deviations from the procedure or employees demonstrate inadequate knowledge of the procedure.

4.2 Employee training topics shall include, but will not be limited to:

4.2.1 CFR 1910.1200, Hazard Communications Standards.

4.2.2 Physical and health hazards of potential exposure to chemicals located at the employee's work place.

4.2.3 Location and availability of the local HAZCOM written program.

4.2.4 List of hazardous chemicals located at the employee's work place.

4.2.5 Use and interpretation of SDS/MSDS.

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- 4.2.6** Labeling of hazardous chemicals.
- 4.2.7** Proper engineering controls, procedures, and PPE for handling hazardous chemicals.
- 4.2.8** Methods of transfer, storage and disposal of hazardous chemicals.
- 4.2.9** Methods of identifying hazardous material emergencies.
- 4.2.10** Activation of Emergency Action Plan.
- 4.2.11** Proper response during a chemical spill/release including first response, communications and activation of the Spill Prevention Control and Countermeasures (SPCC).
- 4.3** Contractor employees shall be trained in the requirements of the HAZCOM procedure IAW Site Safety Procedure 5 (SSP-5) Contractor Safety Procedure.

5. GENERAL SAFETY RULES

- 5.1** A pre-job safety meeting (PJSM) shall be held prior to performing any non-routine task incorporating hazardous chemicals or materials.
- 5.2** Read and understand the SDS/MSDS associated with each chemical utilized in assigned tasks.
- 5.3** Substitute lower toxicity chemicals whenever possible.
- 5.4** Limit the volume of volatile or flammable chemicals to the minimum amount necessary for the task.
- 5.5** The number of hazardous chemicals and the number of reactions between them is so large that prior knowledge of potential hazards cannot be assumed. Use hazardous chemicals in as small of quantities as possible to minimize exposure and possible harmful effects.
- 5.6** Prior to ordering new chemicals for use in the work place, all hazards will be evaluated by the Safety Position, and all involved users trained on the use and specific hazards of the new chemical.
- 5.7** Keep all work areas and storage areas clean and orderly.
- 5.8** All containers used in work tasks shall be properly labeled, and properly stored or disposed of after use.
- 5.9** Dispose of used chemicals properly, not in drains, septic tanks, or on the ground.

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6. SDS/MSDS MANAGEMENT

Note:

Effective June 1, 2015 Safety Data Sheets replace Material Safety Data Sheets in accordance with the Global Harmonization Standard (GHS) portion of CFR 1910.1200, Hazard Communication standard. This also requires the Safety Data Sheet to be in the format specified in the GHS Hazard Communication standard.

- 6.1** Whenever a chemical is ordered, a request should be made for the SDS/MSDS to be available prior to delivery of the product.
- 6.2** When an SDS/MSDS is received, it shall immediately be filed in the current SDS/MSDS log and/or entered into an SDS/MSDS management online resource.
- 6.3** If the material is hazardous, the chemical name is recorded in the site Hazardous Material Inventory.
- 6.4** The original hard copy should be retained on site for reference.
- 6.5** Obsolete SDS/MSDS shall be archived.
- 6.6** Master copies of SDS/MSDS are located in the Galena III Control Room, Brady Control Room, and Main Office Library.
- 6.7** Plant specific copies of SDS/MSDS are located in the following locations:
 - 6.7.1** Desert Peak 2 MCC
 - 6.7.2** Galena I MCC
 - 6.7.3** Galena II MCC
 - 6.7.4** OEC-41 MCC
 - 6.7.5** Steam Turbine Generator Control Room
 - 6.7.6** Steamboat II/III Control Room
- 6.8** An online resource for SDS/MSDS is available through the Ormat SharePoint site.

7. LABELING OF HAZARDOUS CHEMICALS

- 7.1** Containers of hazardous chemicals shipped under the Global Harmonization Standard (GHS) must be labeled, tagged, or marked with the following information.

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Note:

After December 1, 2015, the distributor shall not ship containers labeled by the chemical manufacturer or importer unless the label has been modified to comply with this requirement.

7.1.1 Product Identifier

7.1.2 Signal Word

7.1.3 Hazard Statement(s)

7.1.4 Pictogram(s)

7.1.4.1 The required format and authorized pictograms are located in Appendix B.

7.1.5 Precautionary Statement(s)

7.1.6 Name, address, and telephone number of the chemical manufacturer, importer or other responsible party.

7.2 Containers of hazardous chemicals shipped under the previous version of CFR 1910.1200 Hazard Communication standard may be marked with the following information.

Note:

This information is unauthorized after December 1 2015; all shipments prior to this date must be labeled, tagged, or marked per paragraph 7.1 above.

7.2.1 The product name of the material

7.2.2 Actual identity of the hazardous chemical

7.2.3 The appropriate hazard warning

7.2.4 Name and address of the chemical manufacturer, importer or other responsible party

Note:

SDS/MSDS shall be delivered prior to or with the delivery of all chemical container on site. If this is not the case, the container is rejected.

7.3 Containers with labels, tags, or markings that are defaced, torn or removed will not be accepted/received.

7.4 Employees and employers are not to remove, tear, or deface labels, tags, or markings on chemical containers stored on site.

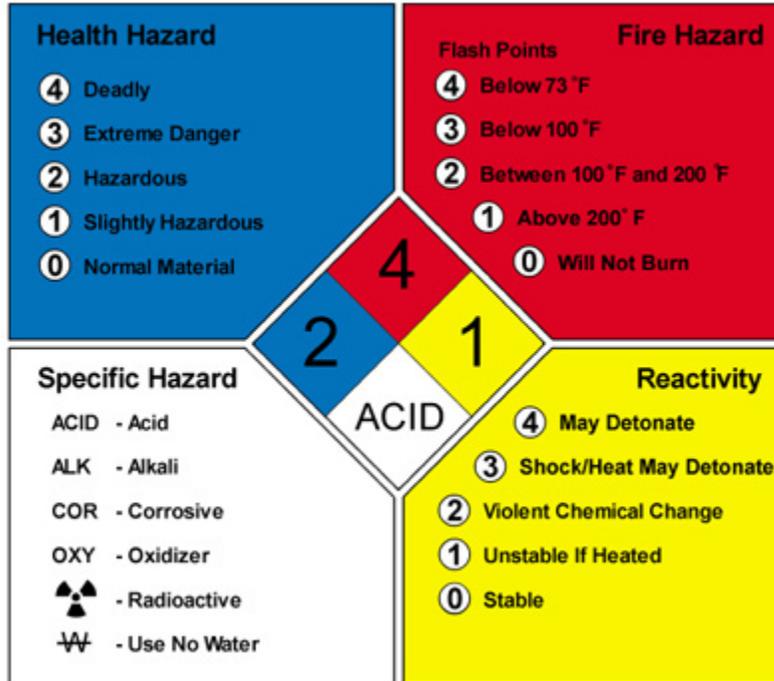
7.5 **Types of labels**

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7.5.1 National Fire Protection Association (NFPA)

7.5.1.1 NFPA labels are diamond shaped with colors to identify the hazard category and numbers from 0 to 4, which indicate the hazard rating.

7.5.1.1.1 The higher the hazard numbers the more severe the hazard.

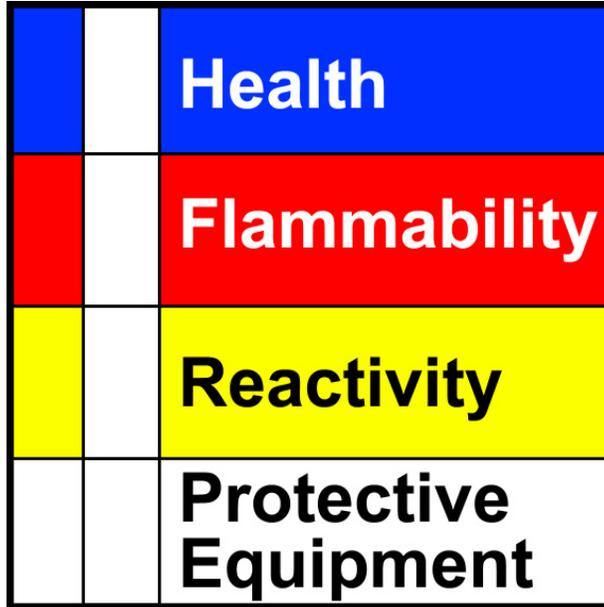


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7.5.2 Hazardous Material Identification System (HMIS)

7.5.2.1 HMIS labels are labels with colors to identify the hazard category and numbers from 0 to 4, which indicate the hazard rating.

7.5.2.1.1 The higher the hazard numbers the more severe the hazard.



7.5.2.2 HMIS labeling may also include PPE recommendations as illustrated below:

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM																									
HAZARD INDEX	PERSONAL PROTECTION INDEX																								
4 = SEVERE HAZARD 3 = SERIOUS HAZARD 2 = MODERATE HAZARD 1 = SLIGHT HAZARD 0 = MINIMAL HAZARD	<table border="1"> <tr><td>A</td><td></td></tr> <tr><td>B</td><td></td></tr> <tr><td>C</td><td></td></tr> <tr><td>D</td><td></td></tr> <tr><td>E</td><td></td></tr> <tr><td>F</td><td></td></tr> <tr><td>G</td><td></td></tr> <tr><td>H</td><td></td></tr> <tr><td>I</td><td></td></tr> <tr><td>J</td><td></td></tr> <tr><td>K</td><td></td></tr> <tr><td>X</td><td>Consult your supervisor or S.O.P. for "SPECIAL" handling directions</td></tr> </table>	A		B		C		D		E		F		G		H		I		J		K		X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
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X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions																								
PERSONAL PROTECTION EQUIPMENT																									
<table border="1"> <tr> <td>A Safety Glasses</td> <td>n Splash Goggles</td> <td>o Face Shield & Eye Protection</td> <td>p Gloves</td> </tr> <tr> <td>q Boots</td> <td>r Synthetic Apron</td> <td>s Full Suit</td> <td>t Dust Respirator</td> </tr> <tr> <td>u Vapor Respirator</td> <td>w Dust & Vapor Respirator</td> <td>y Full Face Respirator</td> <td>z Airline Hood or Mask</td> </tr> </table>	A Safety Glasses	n Splash Goggles	o Face Shield & Eye Protection	p Gloves	q Boots	r Synthetic Apron	s Full Suit	t Dust Respirator	u Vapor Respirator	w Dust & Vapor Respirator	y Full Face Respirator	z Airline Hood or Mask													
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7.6 Work Place Container Labeling Options

7.6.1 Global harmonization labeling requires the following information to be on work place container labels.

7.6.1.1 Product Identification

7.6.1.2 Signal Word

7.6.1.3 Hazard Statement(s)

7.6.1.4 Pictogram

7.6.1.4.1 The required format and authorized pictograms are located in Appendix B.

7.6.1.5 Precautionary Statement

7.6.2 Option 2: Product identifier and words, pictures, symbols, or combination thereof, which provide at least general information regarding the hazards of the chemicals and which in conjunction with the other information immediately available to employees under the HAZCOM program (MSDS/SDS) will provide employees with the specific information regarding the physical and health hazards of the chemical.

7.6.2.1 This method allows the continued use of NFPA markings per 7.5.1 above or HMIS markings per 7.5.2 above along with easy access to the SDS/MSDS.

7.6.2.2 Western Nevada Operations will use option 2.

7.7 Temporary Container Labeling

7.7.1 Portable containers of hazardous chemicals meeting the follow requirements are not required to be labeled.

7.7.1.1 The person that filled the container intends immediate use the chemical.

7.7.1.2 Container will not be left unattended or stored in a toolbox, chemical locker or nearby the work area.

7.7.2 If both requirements above cannot be met for any reason, the container will be labeled per 7.6 above.

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7.8 Pipe/Component/Equipment Labeling

7.8.1 All above ground piping systems used to transport gases, vapors, liquids, or slurries shall be identified at points where confusion would introduce hazards to employees.

7.8.2 Where identification is required for piping, systems markings shall be placed on the pipe near the valves or outlets and direction of flow shall be indicated, one or more of the following methods shall be employed:

7.8.2.1 Complete color painting of all visible parts of the pipe.

7.8.2.1.1 Where identification is provided by complete color painting or by color bands, a color code shall be posted at those locations where confusion would introduce hazards to employees.

7.8.2.2 Color bands, preferably 8 to 10 inches wide, at various intervals and at each valve or connection.

7.8.2.3 Stenciling or labeling of the name of the product transported.

7.8.2.4 Stenciling or labeling of the name of the product transported will be the predominate method of marking Western Nevada Operations piping systems/components.

8. CHEMICAL HANDLING

8.1 Storage

8.1.1 Chemicals shall be stored in a fashion to reduce or eliminate the possibility of unwanted chemical reactions created by accidental mixing.

8.1.2 Chemical storage areas and secondary containment areas shall be maintained clean, dry, and periodically inspected to ensure the following requirements met:

8.1.2.1 Explosives shall be stored separately outdoors.

8.1.2.2 Use either distance or barriers to isolate chemicals into the following groups:

8.1.2.2.1 Flammable liquids or gasses – must be stored away from ignition sources and oxidizers, kept out of direct sunlight, and stored in approved flammable storage lockers.

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8.1.2.2.2 Acids – treat as flammable liquids but do not store with flammable liquids.

8.1.2.2.3 Bases – store separately.

8.1.2.2.4 Other liquids – ensure other liquids are not incompatible with any other chemicals in the same storage location.

8.1.2.3 Chemicals stored on shelves in chemical storage areas shall have a lip on the shelf and a means of securing the containers in the case of earthquake or other disturbance.

8.1.2.4 Containers shall be stored neatly with labels exposed so that they may be easily identified and inspected.

8.1.3 Containers may not be stored on bare ground.

8.1.4 Cans, bottles, and other containers shall not be left in the field after use, but shall be returned to storage or disposed of properly.

8.1.5 Chemicals will not be stored in the same refrigerator used for food storage. Refrigerators containing chemicals shall be labeled for chemical storage use only.

8.2 Personal Protective Equipment (PPE)

8.2.1 PPE shall be worn in accordance with the PPE assessment associated with the task.

8.2.2 Proper PPE requirements for chemical exposure varies according to chemical, guidance can be found in SDS/MSDS, HMIS information, and manufacturer recommendations.

8.2.3 PPE assessments shall be performed for each job task involving a new chemical.

9. DEFINITIONS

9.1 Acute Health Effects: Rapid effect on a body caused by over exposure to a hazardous chemical.

9.2 Chemical: Any substance or mixture of substances.

9.3 Chronic Health Effects: Gradual and potentially permanent effect on a body created by long term exposure to a hazardous chemical.

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- 9.4 Combustible Liquid** Any liquid having a flashpoint at or above 100°F. (37.8° C) but below 200°F. (93.3 C), except any mixture having components of flashpoints at or above 200°F (93.3° C) the total volume of which makes up 99% or more of the total volume of the mixture.
- 9.5 Compressed Gas:** Any compound that exhibits the following:
- 9.5.1** A gas or mixture of gasses in a container having an absolute pressure exceeding 40 psi at 70°F
- 9.5.2** A gas or mixture of gasses in a container having an absolute pressure exceeding 104 psi at 130°F
- 9.5.3** A liquid having a vapor pressure exceeding 40 psi at 100°F
- 9.6 Container:** Any bag, barrel, bottle, box, can, cylinder, drum, reaction vessel, storage tank, or the like that may contain a hazardous chemical. For the purpose of this procedure, pipes or piping systems or engines, fuel tanks and other operating systems in a vehicle are not considered to be containers.
- 9.7 Explosive:** A chemical that causes a sudden almost instantaneous release of pressure, gas and heat when subjected to a sudden shock, pressure or high temperature.
- 9.8 Exposure or exposed:** An employee is subjected in the course of employment to a chemical that is a physical or health hazard, and includes potential (e.g. accidental or possible) exposure. Subjected in terms of health hazards includes any route of entry (e.g. inhalation, ingestion, skin contact or absorption.).
- 9.9 Flammable:** A chemical that falls into one of the following categories:
- 9.9.1** "Aerosol, flammable" means an aerosol that yields a flame projection exceeding 18 inches at full valve opening, or a flashback (a flame extending back to the valve) at any degree of valve opening;
- 9.9.2** "Gas, flammable" means a gas that, at ambient temperature and pressure, forms a flammable mixture with air at a concentration of thirteen (13) percent by volume or less; or
- 9.9.3** "Gas, vapor" at ambient temperature and pressure, forms a range of flammable mixtures with air wider than twelve (12) percent by volume, regardless of the lower limit;
- 9.9.4** "Liquid, flammable" means any liquid having a flash point below 100°F., except any mixture having components with flash points of 100°F. or higher, the total of which make up 99 percent or more of the total volume of the mixture.

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- 9.9.5** "Solid, flammable" means a solid, other than a blasting agent or explosive as defined in 1910.109(a), that is liable to cause fire through friction, absorption of moisture, spontaneous chemical change, or retained heat from manufacturing or processing, or which can be ignited readily and when ignited burns so vigorously and persistently as to create a serious hazard. A chemical shall be considered to be a flammable solid if it ignites and burns with a self-sustained flame at a rate greater than one-tenth of an inch per second along its major axis.
- 9.10 Flash point:** The minimum temperature at which sufficient vapor will be given off a chemical to ignite.
- 9.11 Hazardous chemical:** any chemical, which is classified as a physical hazard or health hazard, a simple asphyxiant, combustible dust, pyrophoric gas, or hazard not otherwise classified.
- 9.12 Hazard Class:** the nature of the physical or health hazards, e. g., flammable solid, carcinogen, oral acute toxicity.
- 9.13 Hazard statement:** means a statement assigned to a hazard class and category that describes the nature of the hazard(s) of a chemical including, where appropriate, the degree of hazard.
- 9.14 Health hazard:** a chemical which is classified as posing one of the following hazardous effects: acute toxicity (any route of exposure); skin corrosion or 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); or aspiration hazard.
- 9.15 Identity/Product Identifier:** The name or number used for a hazardous chemical on a label or in the SDS/MSDS. It provides a unique means by which the user can identify the chemical. The product identifier used shall permit cross-references to be made among the list of hazardous chemicals required in the written hazard communication program, the label and the SDS/MSDS.
- 9.16 Label:** an appropriate group of written, printed or graphic information elements concerning a hazardous chemical that is affixed to, printed on, or attached to the immediate container of a hazardous chemical, or to the outside packaging.
- 9.17 Material safety data sheet (MSDS):** Written or printed material concerning a hazardous chemical, which is prepared in accordance with OSHA Standard 1910.1200 requirements prior to acceptance of the Global Harmonization Standard (GHS) changes.
- 9.18 Oxidizer:** Means a chemical other than a blasting agent or explosive as defined in 1910.109(a) that initiates or promotes combustion in other materials, thereby causing fire either of itself or through the release of oxygen or other gases.

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- 9.19 Pictogram:** a composition that may include a symbol plus other graphic elements, such as a border, background pattern, or color, that is intended to convey specific information about the hazards of a chemical.
- 9.20 Physical hazard:** a chemical that is classified as posing one of the following hazardous effects: explosive; flammable (gases, aerosols, liquids, or solids); oxidizer (liquid, solid or gas); self-reactive; pyrophoric (liquid or solid); self-heating; organic peroxide; corrosive to metal; gas under pressure; or in contact with water emits flammable gas.
- 9.21 Pyrophoric:** A chemical that will ignite spontaneously in air at a temperature of 130°F or below.
- 9.22 Receiving/Warehouse Personnel:** The person(s) who oversees the unloading of delivered chemicals and signs for their delivery.
- 9.23 Routes of Entry:** Methods by which hazardous chemicals are introduced to a body which include inhalation, absorption, injection and ingestion.
- 9.24 Signal Word:** a word used to indicate the relative level of severity of hazard and alert the reader to a potential hazard on the label. The signal words used in this section are "danger" and "warning." "Danger" is used for the more severe hazards, while "warning" is used for the less severe.
- 9.25 Safety Data Sheet (SDS):** written or printed material concerning a hazardous chemical that is prepared in accordance with paragraph (g) of CFR 1910.1200 Hazard Communication following acceptance of the Global Harmonization Standards (GHS).
- 9.26 Specific chemical identity:** The chemical name, Chemical Abstracts Service (CAS) Registry Number, or any other information that reveals the precise chemical designation of the substance.
- 9.27 Temporary Container:** A container that is used on a temporary basis to hold materials for use immediate use by the person who filled the container and is never left unattended, placed in a toolbox or near the work area unless labeled.
- 9.28 Unstable (reactive):** A chemical which in the pure state, or as produced or transported, will vigorously polymerize, decompose, condense, or will become self-reactive under conditions of shocks, pressure or temperature.
- 9.29 Use:** to package, handle, react, emit, extract, generate as a byproduct, or transfer.
- 9.30 Water-reactive:** A chemical that reacts with water to release a gas that is either flammable or presents a health hazard.

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- 9.31 Work area:** A room or defined space in a workplace where hazardous chemicals are produced or used, and where employees are present.
- 9.32 Workplace:** An establishment, job site, or project, at one geographical location containing one or more work areas.

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APPENDIX A

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GHS - Hazard Pictograms and Related Hazard Classes		
		
Explosion Bomb <ul style="list-style-type: none"> • Explosives • Self-reactives • Organic Peroxides 	Corrosion <ul style="list-style-type: none"> • Skin corrosion/burns • Eye damage • Corrosive to metals 	Flame Over Circle <ul style="list-style-type: none"> • Oxidizing gases • Oxidizing liquids • Oxidizing solids
		
Gas Cylinder <ul style="list-style-type: none"> • Gases under pressure 	Environment <ul style="list-style-type: none"> • Aquatic toxicity 	Skull & Crossbones <ul style="list-style-type: none"> • Acute toxicity (fatal or toxic)
		
Exclamation Mark <ul style="list-style-type: none"> • Irritant (eye & skin) • Skin sensitizer • Acute toxicity • Narcotic effects • Respiratory tract irritant • Hazardous to ozone layer (non-mandatory) 	Health Hazard <ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive toxicity • Respiratory sensitizer • Target organ toxicity • Aspiration toxicity 	Flame <ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-heating • Emits flammable gas • Self-reactives • Organic peroxides

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APPENDIX B

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ASSIGNMENT OF DUTIES/RESPONSIBILITIES FOR POSITIONS NOT FILLED/STAFFED

Original Responsibility Assigned to:	Paragraph Number	Responsibility Assigned to:
Safety Position	3.4.1 Training of involved personnel	Training Coordinator
	3.4.2 HAZCOM & Right to know training	Training Coordinator
	3.4.3 SDS/MSDS training	Training Coordinator
	3.4.4 Training for new chemicals in the work place	Training Coordinator Contractor Coordinating Employee
	3.4.5 Contractor training for HAZCOM	Trainers as specified in SSP-5, Contractor Program
	3.4.6 Management of SDS/MSDS files/online system	Compliance Specialist
	3.4.7 PPE Assessments	Compliance Specialist Safety and Compliance Committee
	3.4.8 Ensure evaluation of new chemicals introduced to the work place	Compliance Specialist Contractor Coordinating Employee
	3.4.9 Maintain and update this procedure	Training Coordinator
	3.4.10 Maintain list of hazardous chemicals	Compliance Specialist