

National Manual for Assets and Facilities Management Volume 10, Chapter 3

Hazard Communication Procedure

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Hazard Communication Procedure

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Hazard Communication Procedure

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Hazard Communication Procedure

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1.0 PURPOSE

Operations and/or Maintenance work performed in and around facilities, entities, and associated contractors throughout the Kingdom of Saudi Arabia involves the use of a multitude of different chemicals and hazardous materials to complete a variety of tasks and activities, from cleaners to pesticides to paints to fertilizers. Due to the health hazards (i.e., inhalation, absorption, contact, injection, ingestion) associated with exposure to constituents generated by chemicals and other materials it is necessary for Entities, and/or their contractors, to implement a procedure to give the requirements and guidance for creating a Hazards Communication Program allowing for the adequate protection of workers from the potential dangers associated with hazardous materials in the workplace, and providing guidance for administering an onsite hazardous materials control program.

2.0 SCOPE

The scope of this procedure is to provide means to the user to create a custom procedure outlining and detailing the requirements of a best-practice Hazards Communication Program. This procedure applies throughout the Kingdom of Saudi Arabia to Operations and Maintenance functions and activities on, in, and around government owned facilities and projects.

3.0 DEFINITIONS

Definitions	Description
Hazardous Material	Any material that poses a hazard to humans or the environment
Hazardous Material Inventory	A log of hazardous materials stored and in use onsite, including type, quantity, location, and safety data sheet (SDS) documentation
HCP	Hazard Communication Program
Safety Data Sheet (SDS)	A document that states the material's hazardous constituents, chemical and physical properties, health hazards, permissible exposure levels, first-aid procedures, emergency procedures, and the recommended handling and use requirements. The manufacturer must provide an SDS for all potentially hazardous materials.

4.0 REFERENCES

- OSHA 29CFR 1910 - Subpart H Hazardous Materials
- OSHA 29CFR 1926 - Subpart Z Toxic and Hazardous Substances
- OSHA 29CFR 1910 - Subpart I Personal Protective Equipment
- EOM-KSS-PR-000002 - Housekeeping Requirements Procedure
- EOM-KSS-PR-000003 - Personal Protective Equipment Procedure
- EOM-KSS-PR-000004 - Fire Prevention and Protection Procedure
- EOM-KSH-PR-000004 - Respiratory Protective Equipment Procedure

5.0 RESPONSIBILITIES

5.1 Facility/Contract Manager

Responsible for ensuring the resources and arrangements are available for the implementation and management of this procedure.

5.2 Supervisor

- Responsible for chemicals and hazardous materials brought on or into the facility/contract, including those brought on/in by subcontractors.
- Ensures that the number and the number of chemicals stored are based on need.



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- Ensures that only approved chemicals are brought into the facility or onto the contract.
- Responsible for the program and has overall authority.
- Ensures that all hazardous chemicals are properly labeled, stored, and disposed of in accordance with the SDSs.
- Conducts training of employees in the safe use of hazardous chemicals for routine and non-routine tasks.
- On advice from the Waste Management Supervisor, approves chemical substances for purchase.

5.3 HSE Representative

- Maintains the Chemical Inventory List.
- Maintains the Safety Data Sheet (SDS) book for the facility/contract.
- Provides information about the hazard communication standard.
- Assists the Supervisor with performing chemical inventory surveys.
- Advises Supervisor on approving chemical substances for purchase.
- Provides technical assistance on disposal of chemicals.

5.4 Employees

- Expected to handle chemicals and chemical substances as per a proper handling procedure at all times.
- Report problems/issues/concerns regarding chemicals and/or chemical substances to their supervisor.
- Will sign the Hazard Communication Program (HCP) Training Log indicating they have received the required training under the HCP.

6.0 REQUIREMENTS

Each HSE Execution Plan shall include a Hazardous Material Control and Communication Procedure based on this procedure. The procedure shall describe facility/contract-specific actions to be undertaken to manage hazardous materials properly, prevent incidents, and reduce waste generation onsite. The procedure shall describe:

- Written Hazard Communication Program.
- Evaluation and Approval of New Hazardous Materials.
- Hazardous Materials/SDS Inventory.
- Multiple Employer Work Sites.
- Receipt of Hazardous Materials.
- Storage of Hazardous Materials.
- Disposition of Hazardous Materials.
- Training.
- Recordkeeping.
- Audits/Assessments.

Onsite implementation of such a procedure may be summarized as follows:

- Onsite personnel are provided with information and training on the Hazard Communication Program. New employees and those changing work assignments are given training as they arrive on site or before commencing the new assignment.
- An authorized request is made to obtain a new hazardous material for use on site.
- The HSE Representative evaluates and either approves the material for use or recommends a less hazardous alternative.
- The hazardous material is ordered and a request for the SDS is included as part of the requisition.
- The SDS arrives on site prior to, or along with, the ordered material.
- The hazardous material is checked for proper containerization and labeling and is moved to a designated storage area.
- A copy of the SDS is forwarded to the HSE Representative for recordkeeping and inclusion on the Facility's/Contract's Hazardous Materials Inventory.



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- Onsite personnel working with the new hazardous material are given additional training (as needed) on any new hazards associated with the material. Additional training may be given to other employees working in the area where the hazardous material is stored or in use.

6.1 Hazard Communication Program

The evaluation of hazardous materials for human health hazards and the communication of those hazards to employees shall be required for all facilities/contracts.

Where employees are exposed to hazardous materials must have a Written Plan that describes how the requirements of the Hazard Communication Program will be implemented. This facility/contract-specific Hazard Communication Program for onsite workers shall be developed as part of the HSE training program and shall comprise the following:

- Written plan, in accordance with this procedure.
- Communication to employees regarding:
 - Employee's right to know about hazards to which they are or may be exposed.
 - How to identify hazardous materials.
 - Understanding their associated hazards.
 - Location of hazardous materials on site.
 - Safe work practices with regards to handling and use of hazardous materials.
- Access to onsite information on hazardous materials.
- Updates to information and training for employees initially assigned to new work areas or when new hazardous materials are introduced to the work area, specific to work tasks at hand.

All onsite personnel, including managers, contractors, and subcontractors, shall be required to comply with the Hazard Communication Program.

6.2 Evaluation of Hazardous Materials

All chemicals and hazardous materials to be brought on site must be evaluated for hazard potential, possible substitutes, and use, handling, and storage requirements. Using information provided by procurement, the onsite HSE Representative shall evaluate each new hazardous material prior to its being procured. In performing the evaluation, the HSE Representative shall utilize available information such as vendor catalogs, facility/contract drawings and documentation, customer specifications, current online and/or hard copy SDS, and other available references. In addition, hazardous material evaluations will be based on applicable legal requirements for management of the material and for training of personnel, recognized Safety and Health Standards, and information provided in the SDS. A sample evaluation form is provided (see **Attachment 1 - EOM-KSS-TP-000013 - Hazardous Material Evaluation Form Template**).

An integral part of each evaluation is an assessment to determine if the use of approved alternative materials (when applicable) will reduce the risk of exposure or harm to personnel or to the environment. This assessment should consider the hazards and costs associated with disposal of waste materials generated during use of the product being evaluated. Hazardous materials that pose a significant risk to employees should be avoided whenever possible. When identifying alternative materials, the HSE Representative will coordinate with the Responsible Engineer and/or other qualified site personnel in selecting the appropriate hazardous materials to procure.

Once an evaluation is complete, an approval form is used to document the request, approval, and requirements for use of that material. A sample approval form is provided (see **Attachment 2 - EOM-KSS-TP-000014 - Approval for Hazardous Material Use Form Template**). When a hazardous material is rejected for use onsite, the reason(s) for the rejection and supporting documentation (such as the evaluation information) will be immediately conveyed to procurement.

6.3 Hazardous Materials Inventory and SDSs



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The Hazardous Materials Inventory is the master list of all potentially hazardous materials on site. The list serves as an index to the SDS book and as a tool for updating the training program. The Hazardous Materials Inventory list will contain the following information:

- Product name.
- Manufacturer/supplier.
- Location stored.
- Quantity on hand.
- Annual usage.
- SDS received (yes or no).

A Hazardous Material Inventory (see **Attachment 3 - EOM-KSS-TP-000015 - Hazardous Materials Inventory List Form Template**) shall be developed and maintained by the HSE Representative for all hazardous materials received, stored, or used on site. The Responsible Engineer will regularly review the Hazardous Materials Inventory list with the HSE Representative to verify that the amount of hazardous materials stored and in use on the facility/contract is the appropriate quantity needed to meet the facility/contract requirements.

The Hazardous Material Inventory List will be updated each time a potentially hazardous chemical is brought on site. As guidance, the following list contains hazardous substances that are generic to the construction industry. This list shall be updated/modified to include the materials for a specific site.

Generic Construction Materials	
Acetone	Grout
Bonding agents	Paint
Cement additives/mixtures	Pickling solution
Compressed air and gases	Pipe glue
Epoxy	Pipe dope
Fuel	Pitch (tar)
Fiberglass	Solvents
Flushing mediums	Testing solutions
Flux	Thinners
Form oil	Weld rods
Grease and oil	Wire pulling compound

SDSs (or equivalent information) are required for each hazardous material onsite. SDSs for hazardous materials that are no longer being stored or used onsite shall be filed and retained for the proper period (see country-specific requirements).

SDSs shall be kept in a designated location onsite, logically organized and available to employees during all work shifts and/or in reasonable proximity to the work location. Electronic SDS databases that meet the requirements of this section may be used, as long as employees are trained in and are provided with, the means to retrieve the SDS information.

Hazardous materials that are observed during inventory inspections without the proper SDS shall be tagged "Do Not Use" by the HSE Representative, and stored separately from products in use until such time that an SDS for that material is provided or the material is removed from the site.

6.3.1 New SDSs

SDSs must be received prior to, or at the time of receipt of the first shipment of any potentially hazardous chemical from a supplier.

When SDSs are received with subsequent shipments of potentially hazardous chemicals, they will be reviewed for completeness and for new or updated information.

IF the SDS has been updated, THEN the new SDS will replace the older SDS in the book. All old SDSs shall be archived.



6.3.2 Acquiring a Missing SDS

IF a potentially hazardous chemical is without a SDS, THEN that chemical will be placed on hold, appropriately stored in a quarantine area, and not used until the SDS has been obtained.

6.4 Coordination with Owners, Operators, and Contractors

Whenever outside employees are to work in an area where hazardous materials are present, the relevant parties will be advised of these hazards and provided with information so that they may adequately train and protect their employees. These personnel will be given full access to the Hazardous Material Inventory and SDS database in order to review any necessary information.

The HSE Representative will obtain and review the necessary information when the Contractor or its subcontractors' personnel are likely to be exposed to another employer's hazardous materials. Coordination activities will be documented on a "Multi-Employer Workplace Hazard Communication Interface Form" (see **Attachment 4 - EOM-KSS-TP-000016 - Multi-Employer Workplace Hazard Communication Interface Form Template**).

6.5 Recordkeeping Requirements

The following program records are to be retained as long as the facility/contract program is active:

- Copy of the written Hazard Communication Program.
- Multi-Employer Workplace Hazard Communication Interface Form.
- Written approval of chemical use.
- SDS Archive Record Cover Sheet (see **Attachment 5 - EOM-KSS-TP-000017 - SDS Archive Record Cover Sheet Template**).
- Current Chemical Inventory List.
- Copy of training records.

By January 31 of each year, the HSE Representative will perform an annual physical inventory of all hazardous materials on site and will compare this to the written Hazardous Material Inventory List to ensure accuracy. Materials no longer stored or used on site must be deleted from the list.

After completion of this review, the updated Hazardous Materials Inventory List will replace the outdated version in the SDS book. A copy of the outdated list may be retained in a separate file for reference purposes only.

NOTE: Upon facility/contract closure, these records will be forwarded to the document control center at the Entity which owns the facility/contract.

6.6 Labeling of Hazardous Materials

The purpose of a label is to identify the material and convey hazard information to the user of the material. A label is any written, printed, or graphic display on or affixed to a product container, which contains information in a standardized format. Labels on hazardous material containers must meet at least the following criteria:

- Identity of the hazardous material.
- Be legible, in Arabic and English and prominently displayed on the container.
- Identify the name of the material as it appears on the associated SDS to enable employees to easily locate the relevant SDS.
- Contain appropriate hazard warnings to help employees protect themselves.
- Name and address of the manufacturer, importer, or other person responsible for the hazardous material and from whom more information about the material can be obtained.



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A worker may transfer chemicals from a bulk container to a portable container for immediate use during their shift only. Appropriate labels must be attached to the portable container. The temporary container may not be used for storage of the material beyond the time of the worker's shift.

6.6.1 Missing and Replacing Labels

IF a label is missing from a container, THEN the cognizant supervisory personnel will isolate the container to prevent its use and contact the supplier for the appropriate steps to take to identify the material. Once the material is accurately identified, labels must be obtained and placed on the container prior to its use. The supervisor will obtain new labels and place them on containers under the following conditions:

- Original labels become illegible, dirty, or defaced.
- Original labels are damaged, torn, or affected by weather.
- The contents of the container degrade the original label.

6.6.2 Exceptions to Labeling Requirements

Pipes and piping systems, engines, fuel tanks, and operating systems in vehicles are not considered containers and therefore are not strictly required to comply with these same labeling requirements. However, employees must be informed and trained about the hazards of the materials used in such systems.

Individual stationary containers (e.g., storage tanks) shall have signs, placards, or other appropriate signage attached to them that contain the same information as a manufacture's original label.

6.7 Storage of Hazardous Materials

Hazardous materials must be stored in a manner that adequately protects both human health and the environment from unintended exposure to the primary hazards associated with the materials. These primary hazards may include explosion, fire, reactivity, toxicity or any combination of these hazards.

Storage areas for hazardous materials will be reviewed and approved by the HSE Representative prior to receipt of the materials at the site. Criteria for the location of suitable storage areas include:

- Located away from high traffic areas on site and reasonably protected from the potential for vehicle/equipment damage by guardrails, fences, or other structural controls.
- Provided with a means to control access to the materials so that only authorized (e.g., trained) personnel may remove and use the materials.
- Located away from fence line locations immediately adjacent to environmentally sensitive resources (e.g., wetlands, streams, archeological sites).
- Provided with adequate secondary containment in the form of an impermeable surface surround by curbing or equivalent means to minimize the release of accidentally spilled product to the environment.
- Provided with a means of segregating combustible and flammable materials from oxidizing agents and other sources of ignition (see EOM-KSS-PR-000004 Fire Prevention and Protection Procedure).
- Provided with a means of preventing water reactive and pyrophoric materials from coming in contact with accumulated water.
- The HSE Representative may review additional guidance information on the location, design, and maintenance of hazardous materials storage areas as contained in governmental regulations, permits.
- Provide sufficient ventilation for the storage.

6.8 Disposition of Hazardous Materials

Decisions regarding the final disposition of onsite hazardous materials should be made at the earliest opportunity, ideally prior to the ordering of the materials. Source reduction through accurate inventory control (e.g., purchasing only the amount of material needed for the task(s), using up all that is purchased)



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will eliminate the need to address final disposition as well as the costs and potential liabilities associated with it.

Good housekeeping practices both in storage and use also go a long way toward minimizing waste generated from hazardous materials. It is critical that all workers understand the significant costs and potential liabilities associated with disposal of hazardous wastes and the importance of managing hazardous materials so as to reduce waste generation.

IF source reduction is not feasible, THEN the operation, working with procurement, will investigate opportunities to return unused materials to the manufacturer either directly or through the subcontractor who used the materials.

Wastes generated from certain hazardous materials (e.g., oils, antifreeze, degreasers, solvents) are routinely recycled in many parts of the world. The HSE Representative, in consultation with procurement, should identify opportunities for recycling early in the site mobilization.

The final legal/authorized option for disposition of hazardous materials is through a licensed treatment, storage, and disposal facility. This should be used as a last resort not only because of the high costs, but also for the increased detailed recordkeeping and the potential for long-term liability. The options for disposal of hazardous waste are typically highly regulated and therefore require very site-specific information. A generic form for documenting the need to dispose of hazardous wastes off site is presented (see **Attachment 6 - EOM-KSS-TP-000016 - Waste Product Disposal Request Template**).

6.9 Information and Training Requirements

Information and training will be provided to employees as follows:

- Initial information and training, in conjunction with other site-specific training, whenever a new employee arrives on site.
- Initially, when new employees are first assigned to a work area where they may be exposed to hazardous materials under normal working conditions or in a foreseeable emergency.
- Additionally, when a new hazard is introduced into the employees' work area. Examples of new hazards are:
 - A new material will be used.
 - A previously used material will now be used in a different manner that poses a new hazard.

The following general information will be given to all employees:

- Requirements of this Procedure.
- Location and availability of the written Hazardous Material Control and Communication Program, the Hazardous Materials Inventory List, and SDSs.
- Operating in their work areas where hazardous materials are used.
- The person(s) to contact for further information.
- Hazardous materials and states of matter (e.g., liquid, solid, gas).
- Chemical, physical, and health hazards.
- Routes of entry (e.g., inhalation, ingestion, absorption).
- Exposure limits and ways to control exposure.
- Personal protective equipment and engineering controls.
- Labeling requirements.
- SDSs, their contents and use.

Personnel who work with hazardous chemicals for routine and non-routine tasks will receive at least the following additional training:

- Hazard analysis of the work to be performed.
- Hazardous constituents and properties in the materials to be used.
- How to detect the presence or release of hazardous materials.
- The environmental or medical monitoring being conducted to detect hazardous materials and to measure the employee's exposure to them.
- How to read and understand SDSs and labels.



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- What to do if a label or SDS is missing.
- What engineering controls are being used.
- Safe work practices.
- Protection from the hazards of the chemicals they encounter.
- Actions to take in case of an emergency.
- The person(s) to contact for further information.

A question and answer period will always be included in each information and training session. Employees and visitors will be encouraged to participate by asking questions or requesting further information.

Visitors will be provided with the same general topics of information as employees. IF visitors are to enter areas where hazardous materials are used, THEN they will be fully advised of the potential hazards and given the opportunity to review the SDSs.

Training for employees will be documented using a training roster. Training for visitors will be documented using a site orientation form. The HSE Representative will maintain all original training records.

6.10 Approved Chemical/Product Index

Attachment 7 - EOM-KSS-TP-000017 - Approved Chemical/Product Index Template contains an example list of common chemicals and/or products that may or may not be approved for use at a given site. This list may be useful for developing a site-specific list.

7.0 ATTACHMENTS

1. EOM-KSS-TP-000013 - Hazardous Material Evaluation Form Template
2. EOM-KSS-TP-000014 - Approval for Hazardous Material Use Form Template
3. EOM-KSS-TP-000015 - Hazardous Materials Inventory List Form Template
4. EOM-KSS-TP-000016 - Multi-Employer Workplace Hazard Communication Interface Form Template
5. EOM-KSS-TP-000017 - SDS Archive Record Cover Sheet Template
6. EOM-KSS-TP-000018 - Waste Product Disposal Request Template
7. EOM-KSS-TP-000019 - Approved Chemical/Product Index Template



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Attachment 1 - EOM-KSS-TP-000013 - Hazardous Material Evaluation Form Template

Reference No: _____ Date: _____

Facility/Contract Name: _____ Product Name: _____

Location: _____ Manufacturer: _____

1) Describe how material shall be used and a description of the surrounding environment:

2) Number of employees involved: _____

3) Duration of task: _____

4) Will the substance/agent have the potential to be considered a physical or health hazard in the manner used above?

Yes

☐

No

☐

5) **Is the substance/agent**

Physical (e.g. radiation, noise)

Yes

☐

No

☐

Mechanical (e.g., weld fume)

☐☐

Chemical (e.g., fume, gases, acids)

☐☐

6) **Possible exposures:**

Routes of entry

Low

Medium

High

Inhalation

☐☐☐

Ingestion

☐☐☐

Injection

☐☐☐

Absorption

☐☐☐

7) **Control Evaluation:**

Are safer substances available?

Yes

☐

No

☐

Can you use a substance in less harmful form?

☐☐



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7) Control Evaluation (continued):

Yes

No

Are control measures in use?

Are they being used correctly?

Are new control measures required?

Is training adequate?

☐

☐

☐

☐

☐

☐

☐

☐

8) Can exposure be reduced by amending or establishing current working practices? _____
If the answer is Yes, describe new work practices:

9) Describe required Personal Protective Equipment:

Describe required environmental or personnel monitoring activities:

11) Recommendations for future use:

Assessor: _____ Date: _____

Part II

1) Occupational exposure standard used (OES):

Personnel exposure limits:

Substance	8 hr. TWA	8hr TWA	15 min STEL	15 min STEL
	PPM	Mg/m ³	PPM	Mg/m ³



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Attachment 2 - EOM-KSS-TP-000014 - Approval for Hazardous Material Use Form Template

PRODUCT NAME

The HSE Representative and Facility/Contract Management personnel have reviewed the SDS for the requested material and arrived at the following conclusion(s):

- The material may be used provided all the requirements of the Hazard Communication Program and the SDS are followed.
- The material is unacceptable for use on site due to its hazardous properties. An alternate material should be identified.
- No suitable alternates are available; the materials may be used, under the following conditions:
 - Exposure must be maintained to 10 percent of the allowable limits as identified on the SDS
 - The appropriate engineering controls and required personal protective equipment must be used

HSE Representative

Date

Concur:

Facility/Contract Manager

Date



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Attachment 4 - EOM-KSS-TP-000016 - Multi-Employer Workplace Hazard Communication Interface Form Template

INSTRUCTIONS: Complete all sections and obtain supporting signatures. Use back of the form for more information.

This checklist has been completed to document the steps taken to:

- Inform owners, operators, subcontractors, or other contractors of potential hazards from hazardous materials while working in shared workplaces.
- Gather information about the potential hazards associated with hazardous materials used by owners, operators, subcontractors, or others while working in shared workplaces.

Topic	Comments
Description of work	Activity:
	Location:
	Duration:
Hazardous chemicals or materials in use	
Location of Hazardous Material Inventory List and SDS's	
Site evacuation and emergency procedures reviewed	
Other information	

I have been presented the above information, I understand it, and accept responsibility for informing my employees of the potential hazards at this facility.

COMPANY _____

Signature _____

Title _____

DATE _____



Attachment 5 - EOM-KSS-TP-000017 - SDS Archive Record Cover Sheet Template

The material listed on the Safety Data Sheet(s) (SDS) is no longer used on site and the SDS(s) is (are) no longer required on site.

- An updated SDS has been received for this product and this version of the SDS is obsolete.

Please code the SDS(s) into the record system as “SDS record copy.”

SAMPLE

HSE Representative

Date



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Attachment 6 - EOM-KSS-TP-000018 - Waste Product Disposal Request Template

Waste Product Disposal Request (Upon completion of this form, forward to Procurement)		
Date:	Product Name (<u>Attach SDS</u>):	
Approximate Quantity to be Disposed (gallons, pounds, etc.) & General Characteristics of material (solid, liquid, powder, etc.):		
Type of Container Product is Currently In:		
Approximate Location Product is Currently Stored:		
Condition of Product: ☐ Stored/maintained per product recommendation, is within expiration date, and is reusable. ☐ Waste product, needs to be disposed of. ☐ Other:		
Additional Comments:		
Contact Person for Further Information: Name: Position: Phone No.		
Form Initiated By: Name: Position: Phone No.		



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Attachment 7 - EOM-KSS-TP-000019 - Approved Chemical/Product Index Template

Product/Chemical Name

Manufacturer(s)

1,1,1-Trichloroethane
400 Insecticide
8254 Tram

Parks Corp.
James Varley & Sons
EZ Products

-A-

Abrasive Wheel
Adhesive No. 571
Ace Aluminum Mobile Home Roof Coating
Acetylene (gas)
Air, Compressed
Ajax
Alcohol-Free Towelettes
Alconox Detergent
All Purpose Absorbent
All Purpose Cleaner
All Purpose Tractor and Hydraulic Oil
Ammonium (Glass Cleaner)
Ammonium Sulfate
Amphibikote X155-5
Anode Cleaning Solution B
Aqua-Gel II
Aquamet E
Aquamet M
Aquamet T
Argon (Gas)
Auto Engine Oil

Various
El Chem
Gibson Homas Co.
Various
Various
Ajax
Various
Alconox
Excel International
Dayton
NAPA
Various
Various
Karnak Corp.
Orion Research, Inc.
Ideal
Alco Chemical Co.
Alco Chemical Co.
Alco Chemical Co.
Various
Various

-B-

Baby Fresh Wipes
Bar and Chain Oil
Bentonite
Bonding Adhesive
Borax Soap
Boric Acid Solid
Brake Fluid
Brillo Bowl Cleaner
Brillo Pinosan SW207
Bromocresol Green
Bromocresol Purple
Buff-Eez
Buffer pH4
Buffer pH4 Red
Buffer pH 4.01
Buffer pH7
Buffer pH 7.0-8.0
Buffer pH10

Scott
Various
Roctest
Goodyear
Envir. Chem.
Unk
Various
Purex Ind.
Purex Ind.
Various
Various
NAPA
Fisher Scientific
Fisher Scientific
Fisher Scientific
Fisher Scientific
Fisher Scientific
VWR Scientific

-C-

Calcined Alumina A-2
Calcium Chloride
Carburetor, Choke and Throttle Body Cleaner
Carbon Monoxide (Cal Gas)
Carbon Steel Scrap-ReSi/FeMn
Charcoal, activated
Chain and Cable Lube
Citric Orange Hand Cleaner
Cleaner Sanitizer II

Alcoa Chemical
Various
Various
Various
Durasteel Abrasive Co.
Witco Co.
NAPA
NAPA
SMA #34337



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Product/Chemical Name

Manufacturer(s)

Clean-Gear Towelettes
Clor-N-Oil PCB Screening
Compressed Air
Conductivity Standard, 1,000 micromhos/cm
Conductivity Standard, 1,000 micromhos/cm
Contact Cement, Weldwood
Contact Cleaner

Georgia Steel & Chemical
Dexsil Corp.
Various
Fisher Scientific
Fisher Scientific
DAP
Scotch D-3 Adhesive

-D-

Dayton Glass Cleaner
Deep Woods Off
Denatured Alcohol
Deodorant Blocks
Derusto Inverted Spray Paint
Diatomaceous Earth
Diesel Fuel
Diesel Fuel Supplement

Dayton
Johnson Wax
Parks Corp
Zep
Derusto
Manville
Various
Power Services

-E-

Electrolyte Solution
Emergency Tire Inflator
Enamel, Tile-Clad II
Epoxy Coating
Epoxy Enamel
ESI-332
Ethyl Alcohol
Ethylene Glycol

Orion Research, Inc.
NAP
Sherwin Williams
Sherwin Williams
Passonno Corp
Environ. Scientific
Fisher Scientific
Ashland Chemical

-F-

Fantastik Cleaner, Lemon Scent
Fastbond 30-NF Adhesive
Field Seaming Adhesive
Fire Extinguishers
Floor Absorbent
Floor Finish
Floor Stripper
Fogpruf #13018
Freon-12m Horn

Dow Brands, Inc.
3M
JPS Electronic
Various
SA Manning Dist.
Dayton
Dem-Kote
MSA
Balkamp

-G-

Galvit Primer
Gasoline
Gear Lube 80W90EP
Glass Cleaner

Sherwin Williams
Various
Witco
Dayton

-H-

Halite Winter Melt
Hand Cleaner w/Pumice
Hexane
High gloss enamel, 304 Canary Yellow
High Vacuum Grease
Hydraulic Fluid, AW-32
Hydraulic Oil
Hydraulic Water Stop
Hydrochloric Acid (36.5-38%)
Hydrogen (gas)
Hydrogen Sulfide (Cal Gas)
Hydrosep
Hypalon Adhesive
Hyvar X Herbicide

Cargill Salt
Gojo
Weston
Master Service
Unk
Deaver
Mobil
Quickrete
Various
Various
Various
Encon Safety Products
Burke
DuPont



Hazard Communication Procedure

Product/Chemical Name

Manufacturer(s)

-I-

Indelible Stamp Ink
Industrial Enamel
Industrial Maint. Coat
Injector Care
Ink (Roller Stencil)
Isobutylene 250 ppm (cal gas)
Isopropyl Alcohol
Iron Clad Paint

Carter
Rustoleum
Sherwin Williams
NAPA
Marsh
Various
Various
Benjamin Moore

-J-

Jenny 80 Coll Conditioner

Homestead Ind.

-K-

Kerosene
Krovar I/DF Herbicide
Krylon Spray Paint

Various
DuPont
Borden

-L-

Landa Pump Oil
LAP Sealant
Latex Semi-Gloss
Liquid Caustic Soda 50%
Liquid Paper
Liquid Roof Coating
Liquid Wrench
Liqui-Nox
Lock-Ease

Landa
Goodyear
Sherwin Williams
Various
Various
Ace
Radiator Specialty Co.
Alconox
AGS Co.

-M-

Mak-Mix 50
Marking Chalk
Marking Paint
Masklene MK-1 Detergent
Mastic Remover
Mechanical Pump Fluid
Methane (1.5%)
Methane (10 ppm)
Methane (100 ppm)
Methane (1000 ppm)
Methanol
Mildew Stain Remover
Mineral Oil
Motor Oil
Multi-Lube EP Grease
Multi-Purpose Grease
Muriatic Acid 30%
Muriatic Acid <20%
Muriatic Acid 20%
MSA Cleaner/Sanitizer II
MSA Ventilation Smoke Tube Kit

Komatsu Zenoah Ametica, Inc.
Koson
Aervoe Pacific

Team Environ.
Inland Vacuum
Various
Various
Various
Various
Various
Zep
Various
Various
Valvoline
NAPA
Various
Various
Various
MSA
MSA

-N-

National Bentonite
NIST Traceable Conductivity Calibration Standards
Nitric Acid (65%)
Nitric Acid (70%)
Nitric Acid (>90%)

Baroid Minerals & Chemical
VWR Scientific
Various
Various
Various

-O-

Oatey All Purpose Cement

Oatey



Hazard Communication Procedure

Product/Chemical Name

Oatey PVC Cleaner
Oatey PVC Purple Primer/Cleaner
Off
Oil-Dri Industrial Absorbent
Ortho Hornet & Wasp Spray
Oxalk Acid Powder
Oxygen (Cal Gas)
Oxygen (Gas)
-P-
Packaging Spray
Paint (Brush/Spray Alkyd)
Peltonite
Pentane, Oxygen, Nitrogen Mix (#476304)
pH4 Red Buffer
pH Buffers
PIG Absorbent Sock
Pine-Sol
Plasti-Kote Spray Paint
Porch/Deck/Floor enamel
Portland cement
Potassium Chloride
Premium Starting Fluid
Professional Weed & Feed
Propane
Propanol
2-Propanol
-R-
RBS 35
Reducer 54
Respirator F-Test Ampules
Rise and Shine
Rubberized Undercoat
Rust-Oleum Spray Paint
Rust Magic Enamel (Aerosol)
-S-
SBR General Purpose Aerosol Adhesive
Seam Adhesive
Sebreeze "Power Powder"
Seam Primer
Service Coat Paint #2375 Aluminum
Siding Cleaner
Silicon Dioxide (Sand)
Silicon II
Silicon Lubricant
Silicon Sealant Clear #8641
Sodium Carbonate
Sodium Hypochlorite
Sodium Meta-Bisulfite
Solvent Cleaner
Snap Starter Fluid
Spray Adhesive 5W039A
Spray Enamel (All Colors)
Sulfuric Acid
Summer Insect Control plus Fertilizer
Super 77 Spray Adhesive
Super Weed & Feed

Manufacturer(s)

Oatey
Oatey
Johnson Wax
Oil-Dri Corp.
Chevron Environmental Health
Unk
Various

Demi Kote
Krylon
Roctest
Mine Safety Appliances
Beckman Instruments
Various
New Pig Corp.

Plasti-Kote
Benjamin Moore
National Gypsum
Sargent & Walsh
NAPA
Lofts
Suburban Propane
Fisher Scientific
Fisher Scientific

Pierce Chemical
Sherwin Williams
North
Industrial Soap Company
NAPA
Rust-Oleum
Krylon

Mid-West Indust. Chemical Co.
Goodyear
Rubbermaid
Goodyear
Central Hardware
General Paint & Chemical
Various
GE Waterford
Demi Kote
Dow Corning Corp.
Various
Various
Various
Marsh
Nationwide Ind.
Dem-Kote
New York Bronze Powder Co.
Various
Scotts
3M
Glorion



Hazard Communication Procedure

Product/Chemical Name

Sure Seal Sealant

Manufacturer(s)

Carlisle

-T-

Teflon Pipe Dope
Tellus oil 68
Turpentine
Tetrachloroethylene
T.F.E. Paste #023040
Thermo Aid
Thick Pint Antiseptic 1800
Thinner
Thread Sealant #14D
Throat Seal Liquid
Ticks Off
Tile and Grout Cleaner
Touch n' Stick
Trans-1,2-Dichloroethylene
Transmission Fluid
Trichloroethylene
Tri-Flow
Two-cycle Lubricant
Two-cycle Oil

SOS Products
Shell
EE Zimmerman Co.
Kodak
Ace Hardware
NAPA
Gojo
Rustoleum
Permatex Co.
Graco
White Meyer
Zep
Convenience Products
Kodak
Citgo
Various
Thompson & Formby
Various
Various

-U-

UHU Glue Stic

Faber-Castell Corp

-V-

Ventilation Smoke Tubes
Vermiculite
Veto Bowl Cleaner
Vinyl Spackling

MSA
Various
Zep
DAP

-W-

Wasp and Hornet Killer
Water Base Marking Paint
Wedron Silica, Best Sand
Weed Defeat
WD 40
Windshield Washer Solvent

Rescue, Ortho, Demi-Kote
Aervoe
Wedron Silica Co.
Zep
WD 40
Tradco

-X-

Xylene

Palco Linings

-Z-

Zero Air (THC <1 ppm)

Various

At least quarterly, the HSE Representative or designee will update the Approved Chemical Products Index