SAINT MARY’S COLLEGE OF CALIFORNIA  
STANDARD 1.1.8  
HAZARDOUS WASTE  
HANDLING AND DISPOSAL PROCEDURES

Original Date: 28 October 2003

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APPROVALS

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<th>Release Date:</th>
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<tr>
<td>NC</td>
<td>January 26, 2004</td>
<td>Karen Lauricella</td>
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SMC STANDARD 1.1.8(NC)

APPROVAL SIGNATURE PAGE

Hazardous Waste Handling and Disposal Procedures

Joe Kehoe
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Vice President,
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REVISIONS

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1. INTRODUCTION

1.1 Scope

This Saint Mary’s College (SMC) standard establishes practices for the safe handling and proper disposal of all known hazardous waste materials generated by SMC, and assigns the tasks required to accomplish this to the appropriate departments.

1.2 References

The following documents apply to this process to the extent specified herein:

1.2.1 SMC Standards

(a) MSDS Material Safety Data Sheet in HazCom
(b) Standard 1.1.1 Powered Industrial Truck
(c) Standard 1.1.2 Hearing Conservation Program
(d) Standard 1.1.3 Hazard Communication
(e) Standard 1.1.4 Control of Hazardous Energy including Lockout / Tagout
(f) Standard 1.1.5 Contractor Safety
(g) Standard 1.1.6 Exposure Control Program, B.B.P.
(h) Standard 1.1.7 Injury and Illness Prevention Program
1.3 **Definitions**

A hazardous waste is any toxic, corrosive, reactive or flammable material that is no longer suitable for its originally intended use, and is scheduled to be discarded. Table I identifies some of the hazardous waste materials generated at SMC and their sources.

1.4 **Training Records**

Training will be done on an annual basis for all those affected by this standard. When applicable, more in depth training will be provided to supervisors and managers.

2. **SAFETY**

General safety requirements will be observed as set forth in the SMC Standard for this type of operation. **Special safety precautions** will be called out in special procedure(s), based on the type of waste generated. Safety glasses, and protective coats shall be worn at all times throughout any waste handling.

**WARNING:** REFER TO AND REVIEW THE APPLICABLE MSDS FOR ADDITIONAL SAFETY INFORMATION CONCERNING THE HAZARDOUS MATERIALS BEING USED OR THE HAZARDOUS WASTE BEING HANDLED, PRIOR TO WORKING WITH THE MATERIALS / WASTE.

2.1 **Personnel**

(a) **PERSONNEL TRAINING:** All operations shall be performed by authorized personnel with proper training as specified by federal and state regulations. Any handling of hazardous waste (waste) such as bulking materials together, shall be by trained personnel to the minimum of 8 hour hazardous waste generator training.
(b) **NON-RESIDENT VISITORS**: Non-resident visitors must be briefed by SMC Environmental Health & Safety (EH&S) prior to entering waste areas and shall wear appropriate personal protective equipment for each area.

2.2 **Personal Protection**

(a) **OSHA-APPROVED SAFETY GLASSES WITH SIDE SHIELDS ARE TO BE WORN AT ALL TIMES. NO EXCEPTIONS TO THIS RULE WHILE HANDLING WASTE.**

(b) 3/4 length flame retardant coat or yellow poly coat tyvek suit or better.

(c) Gloves should be selected in accordance with Table II.

(d) **Respirators are not to be worn at any time.** Any work requiring a respirator MUST be brought to the attention of the EH&S Manager or designee. Work requiring a respirator, such as solvent bulking (into drums) will be handled by SMC’s Waste Contractor only.

(e) Refer to the MSDS when handling chemicals including waste.

2.3 **Hazardous Waste Disposal**

**WARNING**: IN THE EVENT OF A SPILL, FIRE, OR OTHER EMERGENCY, EVACUATE THE AREA IMMEDIATELY, THEN PHONE 9 + 911.

2.4 **Equipment Maintenance**

Any equipment malfunction shall be reported to the supervisor IMMEDIATELY.

2.5 **Hexavalent Chromium; Proposition 65 Warning**

Some materials in the Science departments may contain a hexavalent chromium compound. Hexavalent chromium is a chemical known to the State of California to cause cancer. Handle with extreme care. Do not allow contact with the skin and if any risk of dusting exists, handle in a properly operating fume hood. Always wash hands and any possible exposed body surface before eating, drinking or smoking.
2.6 Lead and Products Containing Lead; Proposition 65 Warning

(a) Lead and lead compounds are known to the State of California to be a reproductive toxin in both males and females, to cause cancer, and to be a developmental toxin. The lead containing materials in different compounds are generally not readily accessible; however, after handling or scrapping of the material is performed, the lead possibly is available for exposure at this time.

(b) Caution shall be taken during the handling and subsequent handling of debris or waste associated with the lead compounds in order to minimize the potential for exposure to personnel or students. Personnel in the immediate area of known lead dusts, shall stop work immediately and report such situation to the EH&S Manager. Any work involvement with lead dusts shall be completed by a CERTIFIED CONTRACTOR wearing HEPA cartridge equipped respirators according to their Respiratory Protection Plan.

(c) All personal protective equipment used in handling lead waste compounds shall be handled and disposed of as hazardous waste according this standard, and state and federal regulations.

(d) All personnel shall thoroughly wash their hands with soap and water prior to going on break or otherwise leaving the work area.
2.7 **Solvent Warning**

Solvents are flammable and should not be used near open heat, sparks, strong oxidizers (e.g., potassium perchlorate) or non-explosion-proof electrical equipment. Solvents should not be breathed excessively as it may cause dizziness or fainting. Solvents should not be allowed to contact the skin as they are a skin irritant and can be absorbed through the skin. To avoid the effects of solvents, observe all warnings and select protective equipment in case of spills or breakage as follows:

(a) Wear neoprene gloves if skin contact will be brief.

(b) Wear butyl or silver shield gloves if hands will be submerged or contact prolonged.

(c) Wear chemical goggles if vapor irritates the eyes or splashing risk exists.

(d) If the vapors are overwhelming, call the EH&S Manager immediately. No work shall be done requiring a respirator and a Contractor shall be called.

(e) Certain solvents should not be used at any time, these include but not limited to 1,1,1-trichloroethane, Methylethyl ketone, Benzene, Ethylbenzene, Toluene, Xylene, Tetrachloroethane (perchloroethylene), Dichloromethane.

2.8 **Adhesive Warning**

Handle adhesives with care and do not allow skin contact or breathe fumes excessively. Use adhesives in a well-ventilated area and if skin contact does occur, immediately wash the affected area with soap and water. If the adhesives must be worked with the fingers, wear nitrile/neoprene gloves.

**NOTE:** When the handling phase of this operation is complete and no further risk of exposure exists, the protective equipment shall be hazardous waste according to this standard. All personnel involved in this operation shall thoroughly wash their hands with soap and water prior to going on break or otherwise leaving the work area.
2.9 **Caustic Cleaner Warning**

This pertains to any Caustic cleaners. Skin contact may result in skin burns.

(a) Wear neoprene gloves if skin contact will be brief.

(b) Wear butyl or silver shield gloves if hands will be submerged or contact is prolonged.

(c) Wear chemical goggles if vapor irritates the eyes or splashing risk exists.
(d)

Table I. WASTE MATERIALS

<table>
<thead>
<tr>
<th>No.</th>
<th>MATERIAL</th>
<th>SOURCE</th>
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<tbody>
<tr>
<td>1</td>
<td>Used Oil (motor, hydraulic, machine)</td>
<td>Auto Shop, Maintenance Shop</td>
</tr>
<tr>
<td>2</td>
<td>Waste solvents, Paint/Sludge</td>
<td>Auto Shop, Maintenance Shop</td>
</tr>
<tr>
<td>3</td>
<td>Waste Lab Material, Lab-Pack</td>
<td>J.C. Gatehouse</td>
</tr>
<tr>
<td>4</td>
<td>Waste Debris Contaminated with Oil</td>
<td>Auto Shop</td>
</tr>
<tr>
<td>5</td>
<td>Waste Aerosol Paint cans</td>
<td>Auto Shop, Maintenance Shop</td>
</tr>
<tr>
<td>6</td>
<td>Waste Organic Aqueous Solutions</td>
<td>J.C. Gatehouse</td>
</tr>
<tr>
<td>7</td>
<td>Waste Inorganic Aqueous Solutions</td>
<td>J.C. Gatehouse</td>
</tr>
<tr>
<td>8</td>
<td>Waste Paint Related Material</td>
<td>Maintenance Shop</td>
</tr>
<tr>
<td>9</td>
<td>Waste Adhesives</td>
<td>Maintenance Shop</td>
</tr>
<tr>
<td>10</td>
<td>Waste Lab Debris (glass, apparatus)</td>
<td>J.C. Gatehouse</td>
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## Table II. GLOVE PROTECTION

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<td>DMF</td>
<td>&gt;90 min*</td>
<td>10-35min</td>
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<td>1,1,1-Trichloroethane</td>
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<td>Oil</td>
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<td>Methyl Ethyl Ketone</td>
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min. = minutes

3.
RESPONSIBILITIES

3.1 Environmental, Health, and Safety Manager

(a) Be responsible for all facets of this standard and assume full authority to ensure that it is successfully implemented.

(b) Ensure that weekly inspections of the Hazardous Waste Collection Facility (HWCF) and the satellite accumulation sites are performed and documented on a SMC Form, Appendix A. These inspection sheets will be kept on file in the central Haz. Waste Collection Facility or the final collection area for that waste.

(c) Periodically reviews and test this standard for accuracy and completeness by performing a bi-annual audit of the HWCF, the departments that generate waste, the satellite accumulation sites, and a records review.

(d) Ensure constant communications with the Department of Science Dean and cognizant department supervisors in order to stay informed of any special needs or problems.

(e) Coordinate resources for hazardous waste characterization, profiling, manifesting, record keeping, emergency response, or any required task.

(f) Provide information on any unusual waste that is not already profiled or is questionable in regard to handling, regulations, or technical information.

(g) Complete annual hazardous waste tax and related fees forms and submit to accounting for processing.

(h) Ensure that appropriate members of the material-handling department have received initial training in hazardous waste handling and yearly refresher training on the subject. Training will be documented and kept on file in the EH&S office.

(i) Ensure that or designated a person to ensure that hazardous-waste containers are in good condition and are properly labeled at the time of pick up and during storage at the HWCF. Refer to Appendix B for labeling information.
(j) Ensure that or thru the designee that the transport of full containers of hazardous waste to the HWCF takes place in a timely manner.

(k) Ensures that the segregation of the hazardous waste containers at the HWCF are according to their hazard characteristic (class). The classes that will be segregated are: Ignitibility (flammability), Corrosivity and Toxicity. For reactive waste storage, see the EH&S Manager for special arrangements.

(l) Upon request of user ensure that, or the designee that replacement containers are available for department from which full containers were removed on an as needed basis.

(m) Ensures that, or designee, the containers at the HWCF do not exceed the 180-day accumulation period before they are shipped off site. Contact the hazardous waste contractor identified in Appendix C when drums are at their 160-day accumulation time limit.

(n) Ensures that, or designee, each hazardous waste shipment is properly labeled, manifested, and the land ban restriction form is completed as required. The blue and yellow copies of the manifest and a land ban copy will be forwarded to the EHS Manager in every situation, if a contractor is generating SMC waste from a project or construction site.

3.2
Department Supervisor or Dean

The Supervisor or Dean of the department or area that generates hazardous waste shall:

(a) Ensure that employees that generate, handle and accumulate hazardous waste have received initial training in hazardous waste generators' handling and that they receive annual refresher training.

(b) Maintain an adequate inventory of empty Department of Transportation approved containers for each hazardous waste generated in the department.

(c) Ensure that all hazardous waste generated is properly handled and accumulated in approved DOT containers that are in good condition and properly labeled. Refer to Appendix B for labeling information.

(d) Ensure that hazardous waste containers are sealed after each addition to the container has been made. Do not leave drumheads open between waste additions to the container.

(e) Notify the EHS Manager when the central waste handling facility is full so that a pickup can be scheduled. Notify the EH&S Manager 160 days after the accumulation start date of a waste container has begun even if the container is not full. This will ensure compliance with the 180-day accumulation period requirement. Notify the EH&S Manager when a shipment occurs, so that they can sign the manifest and any profiles and land ban restriction forms, or designate a train person to sign the forms. A trained person is one who has completed annual Hazardous Waste Generator training. No other employee shall sign these forms.
EMERGENCY SPILL PROCEDURES

(a) In the event of a spill, the responsible party must respond immediately and effectively. Spills may occur when generating waste, when transferring chemicals or waste into containers or when transferring chemicals or waste containers from one area to another, or laboratory spills. Therefore, personnel who generate and handle a specific waste must be familiar with that chemical waste material and its specific emergency response and cleanup method. The hazardous waste handling and disposal training that the waste-generating and waste-handling departments receive will include small spill response training only. Additionally, the protective clothing, equipment and supplies that are required to safely and quickly respond to a spill would be stored in those departments. This shall include, as a minimum, the following:

1. Four pairs of long gauntlet 8 mil. nitrile gloves, and three pair of nitrile gloves 4 or 6 mil. sized to fit responding personnel.
2. Three pairs of HazMax Nitrile boots - sized to fit responding personnel.
3. Two each, of Polylaminated full coverage Tyvek suits (hooded and booted with elastic wrist) - sized to fit responding personnel. Two Pair of safety glasses.
4. Enough universal absorbent (e.g., 3M or Pigs) to absorb the largest possible spill (usually 55 gallons of waste oil or diesel fuel) and an open head drum to contain and dispense the absorbent material from as well as hold it when it has been used. Also, for diesel, oil or fuel spills, a clay absorbent such as Solidasorb can be used. Poly bags for holding spent PPE, or other debris generated.

NO SPILLS REQUIRING A RESPIRATOR SUCH AS FLAMMABLE LIQUIDS OR SOLVENTS, STRONG / FUMING ACID OR BASES, TOXICS, ASBESTOS OR LEAD DUSTS, OR REACTIVES, WILL BE CLEAN UP BY ANY SMC EMPLOYEE.
THE HAZARDOUS WASTE CONTRACTOR MUST BE CALLED.
THERE WILL BE NO EXCEPTIONS TO THIS RULE. SEE GUIDELINES BELOW FOR DETERMINATION AND CONTACT THE EH&S MANAGER.

(b) Spills of 4 -Liters or more of any toxic material, corrosive material, or highly flammable material will not be cleaned up by a SMC Employee.
Spills of 500 milliters or more of a strong fuming acid or base, or highly toxic material reactive material

(c) When a spill has been absorbed by the waste absorbing material, the used material will be placed back in the open head drum and the drum will be labeled with the absorbent material and the spilled material on a hazardous waste label. The drum will then be handled as any other hazardous waste drum.

(d) For spills larger than can be safely handled by the responsible department, the Hazardous Waste Contractor, currently Onyx Environmental Services, (See Attachment C), will be called first by the EH&S Manager, then next by a Physical Plant Supervisor, and then next by the on duty Chemist in the science building, or public safety officer only. No other staff member shall call out the Hazardous Waste Contractor.

A spill of any size must be reported to the supervisor of the person generating or handling the waste when the spill occurred, The supervisor will then notify the EHS Manager who will document and report the event in accordance with local, state and federal regulations.
APPENDIX A

HAZARDOUS WASTE INSPECTION RECORD FORM
Galileo Hazardous Waste Storage Room  
Weekly Inspection | Form  
180 day Waste Accumulate Site 
Saint Mary’s College, Small Quantity Generator  

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<tr>
<th>DATE</th>
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See the Check List for Items to be checked.
GALILEO HAZARDOUS WASTE STORAGE AREA
INSPECTION ITEM TO CHECK DURING WEEKLY INSPECTION.

1. Any Container Leaks?
2. Signs of Container Deterioration?
3. Floor Conditions?
4. Waste Compatibility?
5. Waste Volumes; not overflowing?
6. Aisle Space adequate?
7. Storage Area Clean?
8. No liquids in Secondary Containment ?
9. Accumulation Start Times under 180 days (1/2 year)?
10. Labels filled Out Completely with: ?

a. St. Mary’s College and 1928 St.Mary’s Rd. Moraga, CA 94575
b. Accumulation Start Date
c. Waste Name / Composition
d. Hazardous Properties
e. Words “Hazardous Waste” and Statement.
APPENDIX B

LABELING, AND HANDLING INFORMATION

The following appendix gives the labeling and handling information needed on some of the waste streams generated at SMC. Currently, SMC uses only Onyx Environmental Services, LLC for the shipping and disposal of hazardous waste. The list of waste handlers and disposal companies is a dynamic, limited list and subject to change. When changes do occur, the Appendix-C will be updated.
DEBRIS CONTAMINATED WITH PAINT RELATED MATERIALS

1. Waste Generation Process

Waste paint related debris (Kimwipes, stirring sticks, plastic utensils, bags, cans, etc.) that is contaminated with these materials would be placed in a workplace accumulation container. This containerization is to occur at the point of generation as part of the process. The container must be properly labeled with a Hazardous Waste Label before any waste materials are placed in it. The lid on the container must be sealed when waste is not being placed in it. Every day of operations or whenever the bucket is full, whichever is first to occur, the waste will be transferred to the main collection drum located in the secondary containment unit that is located behind the paint shop.

2. Personal Protective Equipment (PPE)

(a) Shop coat.

(b) Nitrile gloves.

(c) Safety glasses.

The proper labeling information for the debris contaminated with paint related materials hazardous Waste Label (DOT Marking) is as follows:
EXAMPLE:

Profile-715361

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME   OEA Aerospace, Inc.
ADDRESS 3530 Branscombe Rd.
CITY  Fairfield
STATE  CA
PHONE  (707) 422-1880
ZIP  94533-0659

EPA MANIFEST ID NO. DOCUMENT NO.  CAD009559618

EPA WASTE NO. D007 CA WASTE NO. 352

EPA WASTE NO. D008

ACCUMULATION START DATE Today's Date

CONTENT, COMPOSITION: Debris contaminated with paint related

Materials

PHYSICAL STATE: HAZARDOUS PROPERTIES: ☐ FLAMMABLE ☑ TOXIC ☐ SOLID ☐ LIQUID ☐ CORROSIVE ☐ REACTIVITY ☐ OTHER

Hazardous waste, solid, N.O.S., 9
NA-3077, PG III
(lead, chromium)

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE CFWMCA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/94
SOLVENT AND PAINT SOLIDS/SLUDGE

1. Waste Generation Process

Waste solvents/paint sludge, will be kept in an approved workplace container. This containerization is to occur at the point of generation as part of the process. The container must be properly labeled before any materials are placed in it. The lid on the container must be sealed when solvent is not being placed in it. Every day of operations or whenever the container is full, which ever occurs first, it will then be transferred to the waste collection drum located in the secondary containment unit located behind the paint shop.

2. Personal Protective Equipment (PPE)

(a) Chemical goggles.

(b) Wear Nitrile gloves if only light contact with solvents/paint sludge will be made or if solvents/paint sludge use in a total immersion situation will not exceed 30 minutes.

(c) Wear gloves made of PVA, Vitron, or Silver Shield if the total immersion time will exceed 30 minutes.

(d) Respirator is required, unless working in a properly operating fume hood. It must be in accordance with SMC, Inc. Standard 1.8.5. The minimum acceptable respirator will be a half-face APR equipped with OV cartridges and worn with chemical goggles.

(e) Shop Coat or Tyvek Suit.

The proper labeling information for Solvent/Paint Sludge Hazardous Waste Label (DOT Marking) is as follows:
EXAMPLE:

Profile - 715375

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.

IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:

NAME OEA Aerospace, Inc.

ADDRESS 3530 Branscombe Rd.

PHONE (707) 422-1880

CITY Fairfield

STATE CA

ZIP 94533-0659

EPA MANIFEST DOCUMENT NO. CAD009559618

EPA WASTE NO. D001 F002

CA WASTE NO. 724

ACCUMULATION TODAY'S START DATE DATE

CONTENTS, COMPOSITION: Solvent and paint sludge related materials

PHYSICAL STATE: FLAMMABLE TOXIC

□ SOLID □ LIQUID □ CORROSIVE □ REACTIVITY □ OTHER

Waste paint related materials, 3,

UN-1263, PGII

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE CFWMCA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/94
Adhesive Contaminated Debris

1. **Waste Generation Process**

Waste adhesive contaminated debris (Kimwipes, gloves, cotton swabs, empty cans, etc.) will be placed in a 3.5-gallon bucket lined with a small garbage bag. This containerization is to occur at the point of generation as part of the process. The 3.5-gallon bucket must be properly labeled with a Hazardous Waste Label before any waste materials are placed in it. The lid on the bucket must be sealed when waste is not being placed in it. Every day of operations or whenever the bucket is full, which ever occurs first, the Chemical Technician will be notified to pick-up the material.

2. **Personal Protective Equipment (PPE)**

(a) Safety glasses.

(b) Shop coat.

(c) Nitrile gloves.

The proper labeling information for Wastewater with metals, chlorates, and perchlorates Waste Label (DOT Marking) is as follows:
EXAMPLE:

Profile - 715351

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME  OEA Aerospace, Inc.

ADDRESS  3530 Branscombe Road  PHONE  707-422-1880
CITY  Fairfield  STATE  CA  ZIP  94533

EPA MANIFEST DOCUMENT NO.  CAD009559618
ID NO.  MANIFEST DOCUMENT NO.  CAD009559618

EPA WASTE NO.  N/A  CA WASTE NO.  352

ACCUMULATION DATE  Today's
START DATE

CONTENTS, COMPOSITION:  Adhesive contaminated debris

PHYSICAL STATE:  HAZARDOUS PROPERTIES:  □ FLAMMABLE  □ TOXIC
□ SOLID  □ LIQUID  □ CORROSIVE  □ REACTIVITY  □ OTHER non-RCRA

Non-RCRA Hazardous Waste, Solid
(Debris, Adhesives)

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE CFWMCA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/04
Debris Contaminated with Metals

1. **Waste Generation Process**

Waste debris contaminated with metals (filters, kimwipes, gloves, Tyvek suits, etc.) will be placed in a 3.5-gallon bucket or drum. This containerization is to occur at the point of generation as part of the process. The 3.5-gallon bucket or drum must be properly labeled with a Hazardous waste Label before any waste materials are placed in it. The lid on the bucket must be sealed when waste is not being placed in it.

2. **Personal Protective Equipment (PPE)**

(a) Safety glasses.
(b) Shop coat.
(c) Nitrile gloves.
(e) Respirator is required during handling of this material if there is a potential for airborne dusts. If this there is a chance for airborne dusts, work must be stopped, and a contractor able to do the work with the proper PPE will be call.

The proper labeling information for the debris with metals Hazardous Waste Label (DOT Marking) is as follows:
EXAMPLE:

Profile - 715357

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME OEA Aerospace, Inc.
ADDRESS 3530 Branscombe Road PHONE 707-422-1880
CITY Fairfield STATE CA ZIP 94533
EPA ID NO. / MANIFEST DOCUMENT NO. CAD009559618
EPA WASTE NO. D011, D007, D008 WASTE NO. 352
ACCUMULATION START DATE Today's Date
CONTENTS, COMPOSITION: Debris contaminated with metals

PHYSICAL STATE: SOLID □ LIQUID □ CORROSIVE □ REACTIVITY □ OTHER
[ ] Hazardous Waste, Solid, N.O.S., 9
[ ] NA-3077, PG III
[ ] (Chromium, Lead)

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX
HANDLE WITH CARE!

STYLE CFWMA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/94
1. Solvent Warning:

The solvent, Isopropyl Alcohol (IPA), is highly flammable and should not be used near any source of ignition, strong oxidizers (i.e., potassium perchlorate), or improperly rated electrical equipment. IPA has a flash point below 530°F and is highly flammable. IPA has an LEL of 2.0% and a UEL of 12.0%. It should only be used in a well-ventilated work area. If an employee is over-exposed to IPA by way of inhalation or skin, it may result in skin irritation, dizziness and nausea, among other health problems. YOU MUST CONSULT THE MSDS before working with IPA. All attempts should be made to perform work with IPA in a properly operating fume hood. If this is not possible, then it must be used in a work area that has enough local ventilation (room ventilation) that the Permissible Exposure Limit-Time (PEL-TWA) is not exceeded. This shall be verified through the EH&S Department. If the PEL-TWA is met or exceeded, then work shall stop until a properly working fume hood is available, or work is continued by a contractor. IPA shall not be allowed to contact strong oxidizing agents, strong reducing agents, or activated carbon.

2. Waste Generation Process

Waste Isopropyl Alcohol (IPA) will be kept in an approved workplace container. The container must be properly labeled before any materials are placed in it. The lid on the container must be sealed when solvent is not being placed in it. Every day of operations or when there is no further use for the IPA, which ever occurs first, it will then be transferred to the waste collection drum located in the secondary containment unit located in the central waste collection area in Galileo Hall.

3. Personal Protective Equipment (PPE)

(a) Chemical goggles.

(b) Wear Nitrile gloves if only light contact with IPA will be made or if IPA use in a total immersion situation will not exceed 30 minutes.

(c) Wear gloves made of Nitrile Rubber or Silver Shield if the total immersion time will exceed 30 minutes.
(d) If a respirator is required, a contractor must be called.

The proper labeling information for IPA Hazardous Waste Label (DOT Marking) is as follows:

EXAMPLE:
HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME OEA Aerospace, Inc.
ADDRESS 3530 Branscombe Road PHONE 707-422-1880
CITY Fairfield STATE CA ZIP 94533

EPA ID NO. / MANIFEST DOCUMENT NO. cad00959618
EPA WASTE NO. D001, D008 CA WASTE NO. 212 ACCUMULATION START DATE

CONTENTS, COMPOSITION: Waste Isopropanol (IPA)

PHYSICAL STATE: ☐ HAZARDOUS PROPERTIES: ☐ FLAMMABLE ☐ TOXIC
☐ SOLID ☐ LIQUID ☐ CORROSIVE ☐ REACTIVITY ☐ OTHER

Waste Isopropanol, 3
UN-1219, PG II

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE CFWMCA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/94
Oil Contaminated Debris

1. Waste Generation Process

Waste debris contaminated with oil, (Kimwipes, gloves, Tyvek suits, etc.) will be placed in a 5-gallon bucket lined with a small garbage bag or an unlined drum. This containerization is to occur at the point of generation as part of the process. The 5-gallon bucket or drum must be properly labeled with a Hazardous waste Label before any waste materials are placed in it. The lid on the bucket or drum must be sealed when waste is not being placed in it.

2. Personal Protective Equipment (PPE)

(a) Safety glasses.
(b) Shop coat.
(c) Nitrile gloves.

The proper labeling information for the debris with trace inorganic oxidizers Hazardous Waste Label (DOT Marking) is as follows:
EXAMPLE:

Profile - 715371

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME ____________ OEA Aerospace, Inc. ____________
ADDRESS 3530 Branscombe Road PHONE 707-422-1880
CITY ____________ Fairfield ____________ STATE CA ____________ ZIP 94533
EPA ID NO. / MANIFEST DOCUMENT NO. CAD009559618
EPA WASTE NO. N/A CA WASTE NO. 223 ACCUMULATION Today's START DATE Date

CONTENTS, COMPOSITION: ____________ Oil contaminated debris

PHYSICAL STATE: SOLID □ LIQUID □ CORROSIVE □ REACTIVITY □ OTHER □
Non-RCRA Hazardous Waste, Solid
(Oil, Debris)

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE CFWMCA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/94
Liquid Resin Adhesive

1. Waste Generation Process

The Liquid Resin Adhesive is generated from residual product or expired shelf life stock. The waste will be placed in the yellow flammable cabinet in the central hazardous waste collection area in Galileo Hall. The Chemical Technicians will pick the waste up and place it in an approved container for proper shipping and disposal. The drum will be stored in the Flammable Cabinet in Galileo Hall.

2. Personal Protective Equipment (PPE)

(a) Safety glasses.

(b) Shop coat.

(c) Nitrile gloves.

The proper labeling information for Liquid Resin Adhesive Waste Label (DOT Marking) is as follows:
HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.
IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:
NAME OEA Aerospace, Inc.
ADDRESS 3530 Branscombe Road PHONE 707-422-1880
CITY Fairfield STATE CA ZIP 94533

EPA ID NO. / MANIFEST DOCUMENT NO. CAD009559618 /

EPA WASTE NO. N/A CA WASTE NO. 331 ACCUMULATION START DATE Today's Date

CONTENTS, COMPOSITION: Liquid Resin Adhesive

PHYSICAL STATE: [ ] SOLID [ ] LIQUID
HAZARDOUS PROPERTIES: [ ] FLAMMABLE [ ] TOXIC
[ ] CORROSIVE [ ] REACTIVITY [ ] OTHER [ ] Non-RCRA

Non-RCRA Hazardous Waste, Liquid
(Bisphenol A Epichlorohydrin)

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!
STYLE CFWMC A8

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646  (800) 621-5808 Rev. 2/94

B-16
Paint Related Materials

1. Waste Generation Process

Waste Paint Related Materials are generated from residual product or expired shelf life stock. The waste will be placed in the yellow flammable cabinet in the central hazardous waste collection area in Galileo Hall. The Chemical Technicians will pick the waste up and place it in an approved drum for proper shipping and disposal. The drum will be stored in the Flammable cabinet in Galileo Hall.

2. Personal Protective Equipment (PPE)

(a) Safety glasses.

(b) Shop coat.

(c) Nitrile gloves.

The proper labeling information for Paint Related Materials Hazardous Waste Label (DOT Marking) is as follows:
EXAMPLE:

Profile - 743053

HAZARDOUS WASTE

STATE AND FEDERAL LAW PROHIBIT IMPROPER DISPOSAL.

IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY
AUTHORITY, THE U.S. ENVIRONMENTAL PROTECTION AGENCY
OR THE CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL.

GENERATOR INFORMATION:

NAME OEA Aerospace, Inc.

ADDRESS 3530 Branscombe Road PHONE 707-422-1880

CITY Fairfield STATE CA ZIP 94533

EPA ID NO./MANIFEST DOCUMENT NO. CAD009559618

EPA WASTE NO. D001, F005 WASTE NO. 331

ACCUMULATION DATE

START DATE

CONTENTS, COMPOSITION: Waste Paint Related Materials

PHYSICAL STATE: HAZARDOUS PROPERTIES: FLAMMABLE TOXIC

□ SOLID □ LIQUID □ CORROSIVE □ REACTIVITY □ OTHER

Waste Paint Related Material, 3

UN-1263, PG II

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX

HANDLE WITH CARE!

STYLE CFWMCA6

Printed by Labelmaster, An American Labelmark Co., Chicago, IL 60646 (800) 621-5808 Rev. 2/94
APPENDIX C

HAZARDOUS WASTE CONTRACTOR EMERGENCY INFORMATION
IN CASE OF AN EMERGENCY

CALL

1-800-325-2382

4.2 ONYX - Specialists in chemical and hazardous waste management
<table>
<thead>
<tr>
<th>NAME</th>
<th>PHONE NUMBER</th>
<th>PAGER NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chuck Schoeder – Operations Manager</td>
<td>510-729-9574</td>
<td>510-440-7331</td>
</tr>
<tr>
<td>Mark Rasmussen – Health &amp; Safety Manager</td>
<td>510-729-3147</td>
<td>510-440-7322</td>
</tr>
<tr>
<td>Rodney Darland – Account Manager</td>
<td></td>
<td>925-437-6166</td>
</tr>
</tbody>
</table>

Please! Only call after following emergency response guide flow chart and calling 1-800-325-2382. See Next Page.
EMERGENCY RESPONSE

NORMAL WORKING HOURS?

CALL RECEIVED

NO

TRANSFER CALL TO OPERATIONS AND/OR SPECIAL PROJECTS SUPERVISOR

BASIC INFORMATION IS GATHERED

INFORMATION REQUIRED: CUSTOMER NAME, MATERIAL SPILLED, CONTACT NAME, AND RETURN PHONE NUMBER

CONTACT OPERATIONS AND/OR SPECIAL PROJECTS SUPERVISOR

CONDUCT CUSTOMER INTERVIEW

CARRIER/SPILLER, AUTHORIZATION, LOCATION, INCIDENT DESCRIPTION, AMOUNT, CONTAMINATED MEDIA, CONCENTRATIONS, MANUFACTURER(S), AND DIRECTIONS TO SPILL SITE

MANPOWER NEEDS MET IN-HOUSE

YES

CALL Approved

SUBCONTRACTOR

DURING NORMAL WORKING HOURS CALLS MAY BE RECEIVED BY RECEPTIONIST OR OFFICE STAFF, AS REQUIRED

NORMAL BUSINESS HOURS

EQUIPMENT LOADED

CREW DISPATCHED FROM FREMONT

CREW ARRIVES FROM FREMONT

CREW DISPATCHED FROM ALTERNATE JOBSITE

EQUIPMENT LOADED

CREW DISPATCHED FROM ALTERNATE JOBSITE

SUPPORT VEHICLE WITH EQUIPMENT/SUPPLIES MEETS CREW, IF NEEDED

FULL CREW DISPATCHED FROM ALTERNATE JOBSITE

NEEDS COMMUNICATED UPON ARRIVAL

OR

PRIMARY RESPONDER DISPATCHED FROM FREMONT OR OTHER JOB

CREW DISPATCHED FROM ALTERNATE JOBSITE

EQUIPMENT LOADED

CREW DISPATCHED FROM FREMONT

CREW ARRIVES FROM FREMONT

EQUIPMENT LOADED

CREW DISPATCHED FROM ALTERNATE JOBSITE

CREW DISPATCHED FROM FREMONT

SUPPORT VEHICLE WITH EQUIPMENT/SUPPLIES MEETS CREW, IF NEEDED

FULL CREW DISPATCHED FROM ALTERNATE JOBSITE
EMERGENCY RESPONSE

NORMAL WORKING HOURS?

CALL RECEIVED

BASIC INFORMATION IS GATHERED

CALL ONYX CONTACT

CONTACT AVAILABLE BY PHONE?

PAGE ONYX REPRESENTATIVE

SERVICE RELAYS INFORMATION

ONYX RETURNS CUSTOMER CALL

CONDUCT CUSTOMER INTERVIEW

MANPOWER NEEDS MET IN-HOUSE

EMERGENCY RESPONSE SUPERVISOR NOTIFIED

SUPERVISOR CONTACTS ON-CALL CREW

SUPERVISOR GOES DIRECTLY TO JOBSITE

SUPERVISOR REPORTS TO FREMONT WITH CREW

CREW ARRIVES IN FREMONT, LOADS VEHICLE FOR RESPONSE

CREW RESPONDS

INFORMATION REQUIRED: CARRIER/SPILLER, AUTHORIZATION, LOCATION, INCIDENT DESCRIPTION, AMOUNT, CONTAMINATED MEDIA, AND CONCENTRATIONS

INFORMATION REQUIRED: MANUFACTURERS, DIRECTIONS, ETC. SUPERVISOR MAY ASK SIMILAR QUESTIONS TO VERIFY INFORMATION

DURING NON-BUSINESS HOURS, CALLS ARE RECEIVED BY THE ANSWERING SERVICE

INFORMATION REQUIRED: CUSTOMER NAME, MATERIAL SPILLED, CONTACT NAME, AND RETURN PHONE NUMBER

DURING NON-BUSINESS HOURS, CALLS ARE RECEIVED BY THE ANSWERING SERVICE

DURING NON-BUSINESS HOURS, CALLS ARE RECEIVED BY THE ANSWERING SERVICE

INFORMATION REQUIRED: CUSTOMER NAME, MATERIAL SPILLED, CONTACT NAME, AND RETURN PHONE NUMBER