# OMEGA CHEMICAL CORPORATION

## Transportation Work Plan

*Prepared for*

*Omega Chemical Corporation*
*12504 East Whittier Boulevard*
*Whittier, California*

*Prepared by*

*IT Corporation*
*336 West Anaheim Street*
*Wilmington, California 90744*

*January 9, 1995*

## 1.0 Introduction

This transportation work plan has been developed as a guide for the preparation, loading, and transportation of drummed hazardous waste to Marine Shale Processing, from the Omega Chemical Corporation facility located at 12504 East Whittier Boulevard, Whittier, California. All transportation of drummed hazardous waste will be conducted in accordance with the specifications included in this plan. The drummed waste generated from the site cleanup of the Omega Chemical Corporation facility will consist of halogenated solvents and still bottoms from the recycling of solvent wastes.

## 2.0 Scope of Work

The information contained in this work plan provides the necessary information for the transportation of drummed hazardous waste. The plan has been prepared as a supplement to the standard work practices described in the site remediation work plan.

The following information is included in this transportation work plan:

- A description of the waste that should be transported under the guidance of this plan.
- The procedure for the correct marking, labeling, and manifesting of the waste drums prior to transportation off site.
- The procedure for loading of drums onto the transportation vehicle and transfer of the drummed waste to rail cars.
- The health and safety requirements necessary for proper implementation of the transportation work plan.
- Emergency procedures for incidents involving the transportation vehicles.

## 3.0 Site Background

The Omega Chemical Corporation facility is located at 12504 East Whittier Boulevard, Whittier, California. The legal description of the site is Lots 3 and 4, Tract 13486, city of Whittier, County of Los Angeles, California. The approximately 1.0 acre site is surrounded by other industrial properties. Located currently on the lot is one 50 foot by 165 foot warehouse, and one 30 foot by 80 foot office building.

A chemical treatment and recycling operation was operated at the site by Omega Chemical Corporation. Waste solvents and chemicals were recycled and sold as usable commercial products. The waste materials were received in drums or bulk tanker loads that were then transferred into larger above ground storage tanks. Non-recyclable waste products were transported off site for disposal.

## 4.0 Waste Description

As part of the facility closure plan, the drummed waste currently stored at the site will be transported off site for disposal at Marine Shale Processing. The waste consists primarily of non-recyclable solvent based liquids and sludges (see Attachment 1). There are approximately 2,425 drums that will require off site transportation and disposal.

## 5.0 Waste Preparation for Transportation

Prior to loading and transportation off site, each waste drum will be inspected. The drums will be screened with a haz cat test to verify the materials hazardous characteristics. At the same time, the physical status of the drum will be checked to ensure that the drum is in shippable condition. Also, the marking and labeling of each drum will be reviewed to ensure that all of the necessary information has been placed on the drum. Finally, a hazardous waste manifest will be completed for each load.

### 5.1 Hazardous Categorization Testing

Each hazardous waste container will be screened to ensure that the material matches the waste profile. The solvent waste will be tested with a haz cat test. Prior to testing, each waste drum will be issued a unique identification number. The test will be conducted on a representative sample removed from each drum. Each sample will be tested for flammability, water reactivity, pH, hexane solubility, and halogenated organic compounds. Additional tests may be added to more fully identify the characteristics of each waste drum. All results from the haz cat testing will be recorded on a haz cat report form with the corresponding drum identification number. The model of haz cat test kit to be utilized will be determined by Omega Chemical Company.

### 5.2 Drum Marking and Labeling

The hazardous waste drums will be marked and labeled in accordance with all applicable state and federal, laws and regulations. These regulations include, but are not limited to the following list:

- Code of Federal Regulations (CFR) 40, Parts 260 to 299
- Code of Federal Regulations (CFR) 49, Parts 100 to 177
- California Code of Regulations (CCR) Title 22, Division 4

In addition to the markings and labelings required by law, each drum will be marked with a unique identification number, as described in Section 5.1 of this work plan. Also, any markings or labels required specifically by the disposal facility will be placed on each drum.

### *5.3 Hazardous Waste Manifest*

Omega Chemical Corporation is required to complete a uniform hazardous waste manifest for each shipment of hazardous waste. The manifest (see Attachment 2) will be completed in compliance with all state and federal, laws and regulations (see Section 5.2 of this work plan). In addition, a completed land disposal restriction notification form will be attached to the manifest. All necessary signatures and information will be entered on the manifest form prior to transportation of the waste drums.

## *6.0 Loading of Transportation Vehicles*

Omega Chemical Corporation will provide for the loading of each transportation vehicle. The hazardous waste drums will be loaded at the Omega Chemical Corporation facility, and transported off site for disposal.

### *6.1 Transporter Requirements*

Omega Chemical Corporation will determine the transporter to be utilized. Each transportation vehicle will be inspected to verify that the vehicle meets the necessary requirements for shipment of hazardous waste. All transporters will comply with all local, state, and federal regulations regarding the transportation of hazardous materials and hazardous waste. These regulations include, but are not limited to the following list:

- Los Angeles County Air Quality Management District Regulations
- California Highway Patrol (CHP) Regulations
- California Vehicle Code
- CFR 40, Parts 260 to 299
- CFR 49, Parts 100 to 177
- CCR Title 22, Division 4

The driver will be required to provide a current State of California hazardous waste transporter certificate number for the vehicle. Also, the transporters must meet the minimum insurance requirements specified by Omega Chemical Corporation.

### *6.2 Hazardous Waste Drum Loading*

After each waste drum has been haz cat tested and inspected for proper markings, labeling, and physical integrity, it will be loaded onto the transportation vehicle. The transportation vehicles will be stake side flatbed semitrailers fitted with tarps to cover the loads. Also, each vehicle will be equipped with a salvage drum and emergency spill cleanup materials. The driver will back the vehicle onto the Omega Chemical Corporation property so that it is fully within the secondary containment area of the facility. The vehicle tires will then be chocked to prevent movement of the trailer during loading.

The drums that have been inspected and approved for transportation will be staged near the loading area. An Omega Chemical Corporation employee will then load the drums onto the vehicle with a forklift affixed with a drum grabber. The vehicle will be loaded from the side, starting from the front of the trailer and moving to the rear. Emergency spill supplies will be located near the loading area to be used in case of an accident during loading.

After all of the drums have been loaded, the vehicle driver will secure the load with a load restraint device and completely tarp the load. Next, the driver will affix the necessary placards to the vehicle. The driver will then sign the uniform hazardous waste manifest and be cleared to leave the facility.

## *7.0 Transportation Route*

The transporter and Omega Chemical Corporation representatives will be responsible for determining the shortest and safest route from the facility to the rail transfer station. Each vehicle driver will be provided a map and given instructions on the route to follow.

## *8.0 Transfer of Waste to Rail Vehicles*

The transportation vehicles will follow the route plan from the Omega Chemical Corporation facility to the rail transfer station in Los Angeles, California. At the rail transfer facility, the driver will be instructed where to park the vehicle and chock the tires. A transfer facility representative will then check the hazardous waste manifest and the drums. The transfer facility

personnel will then transfer the drums from the vehicle to the train car with a forklift outfitted with a drum grabber. After all of the drums have been transferred, the facility representative will sign the uniform hazardous waste manifest and give the vehicle driver a copy.

## 9.0 Health and Safety

All activities performed during the execution of this work plan will be conducted in accordance with the site specific Health and Safety Plan (HASP) for the Omega Chemical Corporation site. The HASP will provide detailed information on chemical hazards present at the site and personnel protective equipment to be used. Also, the HASP will provide specific emergency spill response procedures and emergency telephone numbers.

### 9.1 Training Requirements

All personnel involved in the handling and transportation of hazardous waste will have all necessary training as specified in the HASP and in accordance with all state and federal regulations. In addition to the formal training requirements, each vehicle driver will be instructed on the hazards at the site and emergency procedures to follow during transportation of the waste drums. The driver will be given a copy of emergency phone numbers and contacts.

### 9.2 Transporter Responsibilities

The transporter is responsible for the safe and legal transportation of the hazardous waste drums from the Omega Chemical Corporation facility to the rail transfer facility. Also, it is the transporter's responsibility to maintain the necessary licenses and permits for the transportation of the waste drums. Each transporter will also be responsible for providing vehicles that are in good, safe operating condition.

### 9.3 Emergency Procedures

It is the responsibility of the vehicle driver to implement the emergency procedures in the event of accident during transportation. The following procedures should be followed by the driver in the event of a transportation emergency:

- Pull off of the road and park the vehicle in a safe location.
- Locate and stop the source of the leak, if this can be done safely.
- Contact the emergency contact from Omega Chemical Corporation.

- Wait for instructions from the emergency contact.
- If necessary, call the emergency telephone number indicated on the uniform hazardous waste manifest, or call 911.
- Wait for help to arrive and provide them with the emergency response information attached to the uniform hazardous waste manifest.
- Do not talk to any media personnel.
- Complete any other tasks as assigned by the emergency response contact from Omega Chemical Corporation.

## 10.0 Execution of Work

All marking, labeling, loading, transportation, and transfer of drummed waste will be completed in accordance with the provisions detailed in this transportation work plan. Any changes or deviations will be submitted in writing and approved by Omega Chemical Corporation representatives prior to implementation.

# ATTACHMENT 1

## Typical Types of Wastes Generated by Omega

## TABLE 1
## TYPICAL TYPES OF WASTES GENERATED BY OMEGA

Generator: Omega Recovery Services Date: September 15, 1989
Address: 12504 E. Whittier Blvd
Whittier, CA 90602

Contact/Phone EPA Waste Code(s): D001, F001,F002,F003, & F005

EPA ID No. CAD042245001

Source: Industrial Solvent Recycling

Qualification Analysis for Lebec.

| Organics | |
|---|---|
| Acetone | 1.9% |
| Isopropyl Alcohol | 5.1% |
| Methylene Chloride | 1.5% |
| Methyl Ethyl Ketone | 3.5% |
| Tetrahydrofuran | 0.3% |
| 1,1,1 Trichloroethane | 2.5% |
| Trichloroethylene | 0.7% |
| Methyl Isobutyl Ketone | 1.7% |
| Toluene | 7.2% |
| Butyl Acetate | 2.7% |
| Glycol Ether PM Acetate | 0.6% |
| Ethyl Benzene | 2.7% |
| Xylene | 16.0% |
| Cyclohexanone | 0.3% |
| C9-C10 Alkyl Benzenes | 5.2% |
| Tributyl Phosphate | 4.7% |
| C6-C16 Aliphatics | 43.4% |
| Benzene | <0.1% |

| | | |
|---|---|---|
| Heat Content | 10,700 | Btu's /lb |
| Viscosity | 25 | cp |
| Solids | 9 | % volume |
| Sulfur | 0.2 | % Wt. |
| Nitrogen | <0.1 | % wt. |
| Halogens | 4.4 | % wt. as Cl |
| Aqueous Extraction | 7 | pH |
| Water (separated phase) | 2 | % volume |
| Ash | 2.04 | %wt. |
| Specific Gravity | 0.90 | gr/ml |
| PCBs | <50 | PPM |

**Metals**

| | | | | | |
|---|---|---|---|---|---|
| Pb | <100 | ppm | Ba | <100 | ppm |
| Zn | 400 | ppm | Ti | 200 | ppm |
| Cr | <100 | ppm | Fe | 200 | ppm |
| Se | <200 | ppm | Cd | <100 | ppm |
| V | <100 | ppm | As | <200 | ppm |

A most recent year 1989 listing of wastes manifested to off-site facilities is shown in Table 2.

# ATTACHMENT 2

## Uniform Hazardous Waste Manifest

State of California – Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

**See Instructions on back of page 6.**

Department of Toxic Substances Control
Sacramento, California

# UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.

2. Page 1 of

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

4. Generator's Phone ( )

5. Transporter 1 Company Name | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. | | | | |
| b. | | | | |
| c. | | | | |
| d. | | | | |

J. Additional Descriptions for Materials Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name | Signature | Month | Day | Year

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

**DO NOT WRITE BELOW THIS LINE.**

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA

DTSC 8022A (7/92)
EPA 8700-22

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

**See Instructions on back of page 6.**

Department of Toxic Substances Control
Sacramento, California

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9. Designated Facility Name and Site Address | 10. US EPA ID Number

| 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
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GENERATOR

Printed/Typed Name | Signature | Month | Day | Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

**DO NOT WRITE BELOW THIS LINE.**

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 3000, Sacramento CA [illegible]

DTSC 8022A (7/92)
EPA 8700—22