



Reg # 3377-30

PM-32

file  
7/19/14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

18 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

JEANINE GUIDROZ  
ALBEMARLE CORPORATION  
451 FLORIDA STREET  
BATON ROUGE, LA. 70801

Subject: Label Amendment Submission of 4/11/94 in Response to PR Notice 93-7  
EPA Reg. No. 3377-30  
M-B-R 75

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

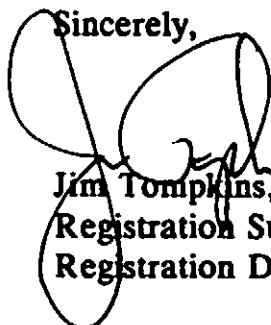
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

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Jeanine Guidroz  
Albemarle Corporation

Comments for: EPA REG. NO. 3377-30  
M-B-R 75

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

**Under PERSONAL PROTECTIVE EQUIPMENT**

**Applicators and other handlers must wear:**

**Modify current "Full-face shield or safety glasses with brow and temple shields (DO NOT wear goggles)" to read "Full-face shield or safety glasses with brow and temple shields when handling liquid product (DO NOT wear goggles)".**

**RESTRICTED USE PESTICIDE  
DUE TO ACUTE TOXICITY**

4914

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

**M-B-R 75  
PREPLANT SOIL FUMIGANT  
FOR PREPLANT CONTROL OF MANY SOIL-BORNE PESTS  
IN PLANT BEDS AND NURSERIES**

**ACTIVE INGREDIENTS:**

METHYL BROMIDE.....75%  
CHLOROPICRIN.....25%

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

NOV 18 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

337730

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**



**POISON**

**PELIGRO**

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)**

**IN ALL CASES OF OVER-EXPOSURE, GET MEDICAL ATTENTION IMMEDIATELY. TAKE PERSON TO A DOCTOR OR EMERGENCY TREATMENT FACILITY.**

**STATEMENT OF PRACTICAL TREATMENT**

**IF INHALED** - Get exposed person to fresh air. Keep warm. Make sure person can breathe freely. If breathing has stopped, apply artificial respiration. Do not give anything by mouth to an unconscious person.

**IF ON SKIN** - Immediately remove contaminated clothing, shoes, and any other item on skin. Wash contaminated skin area thoroughly with soap and water.

**IF IN EYES** - Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes.

ALBERMARLE CORPORATION  
451 Florida Street  
Baton Rouge, LA 70801



In case of an emergency endangering life or property involving this product, call collect (504) 344-7147.

EPA Reg. No. 3377-30  
EPA Est. No. 3377-AR-1

NET CONTENTS.....LBS.

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PRECAUTIONARY STATEMENTS  
HAZARD TO HUMANS  
AND DOMESTIC ANIMALS

## DANGER

EXTREMELY HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE. DO NOT BREATHE VAPOR. INHALATION MAY BE FATAL OR CAUSE SERIOUS ACUTE ILLNESS OR DELAYED LUNG, NERVE OR BRAIN INJURY. LIQUID OR VAPOR CAN CAUSE SERIOUS SKIN OR EYE INJURY WHICH MAY HAVE A DELAYED ONSET. DO NOT GET LIQUID ON SKIN, IN EYES OR ON CLOTHING.

This product contains chloropicrin. Chloropicrin may be irritating to the upper respiratory tract, and even at low levels can cause painful irritation to the eyes, producing tearing. If these symptoms occur, leave the fumigation area immediately.

### NOTE TO PHYSICIAN

Early symptoms of overexposure are dizziness, headache, nausea and vomiting, weakness and collapse. Lung edema may develop in 2 to 48 hours after exposure, accompanied by cardiac irregularities; these effects are the usual cause of death. Repeated over-exposure can result in blurred vision, staggering gait and mental imbalance, with probable recovery after period of no exposure. Blood bromide levels suggest the occurrence, but not the degree, of exposure. Treatment is symptomatic. See the product MSDS for additional information.

### AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/m<sup>3</sup>). The acceptable air concentration for persons exposed to methyl bromide is 5 ppm (20 mg/m<sup>3</sup>). The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Loose-fitting or well ventilated long-sleeved shirt and long pants

Shoes and socks

Full-face shield or safety glasses with brow and temple shields (Do NOT wear goggles.) When the acceptable air concentration level is above 5 ppm and a respirator is required, protect the eyes by wearing a full-face respirator.

No respirator is required if the air concentration level of chloropicrin in the working area is measured to be less than 0.1 ppm AND the air concentration level of methyl bromide in the working area is measured to be less than 5 ppm.

A respirator is required if the acceptable air concentration level of 0.1 ppm for chloropicrin OR 5 ppm for methyl bromide is exceeded at any time. The respirator must be one of the following types: (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

Under normal soil fumigation conditions, the air concentration level of chloropicrin in the working area will not generally exceed 0.1 ppm AND the air concentration level of methyl bromide in the working area will not generally exceed 5 ppm. Therefore, no respiratory protection is required. However, there is the possibility of a spill or leak during soil fumigation. Therefore, a respirator of a type specified above must be available and will be required for entry into an affected area in the event of a leak or spill.

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## WORK SAFETY REQUIREMENTS

1. Do not wear jewelry, gloves, goggles, tight clothing, rubber protective clothing, or rubber boots when handling. Methyl bromide and chloropicrin are heavier than air and can be trapped inside clothing and cause skin injury.
2. If liquid fumigant splashes or spills on clothing, remove them at once, as fumes will be an intolerable source of irritation.
3. Immediately after contamination remove outer clothing, shoes, and socks and do not reuse until thoroughly aerated or ventilated. Keep such clothing and shoes outdoors until thoroughly aerated. Then follow the PPE manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE and work clothing separately from other laundry.
4. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
5. Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

## USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## WARRANTY

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

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**METHYL BROMIDE**  
AND MORE THAN 2% CHLOROPICRIN MIXTURE,  
LIQUID  
NA 1581



**ENVIRONMENTAL HAZARD**

This pesticide is toxic to wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**CHEMICAL HAZARD**

M-B-R 75 is nonflammable. There is no danger from fire or explosion in use concentrations. However, flame can change the chemical to produce some corrosive damage to items in the space being fumigated. Pilot lights and glowing wire heaters should be turned off. Do not apply gas directly to metal surfaces because of possible corrosive effect on certain metals. Do not use containers or application equipment made of magnesium, aluminum, zinc or their alloys.

## **STORAGE AND DISPOSAL**

### **STORAGE AND HANDLING**

Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Do not contaminate water, food, or feed by storage or disposal.

Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.

### **CONTAINER DISPOSAL**

When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders.

### **PESTICIDE DISPOSAL**

Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.



## DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

### PLACARDING OF FUMIGATED AREAS

The applicator (or supervisor of the application) must placard all entrances to the fumigated area with signs bearing:

- skull and crossbones symbol,
- "DANGER/PELIGRO,"
- "Area under fumigation. DO NOT ENTER/NO ENTRE,"
- "Methyl Bromide and Chloropicrin Fumigants in use,"
- the date and time of fumigation, and
- name, address, and telephone number of the applicator.

Do not allow entry by unprotected persons into the fumigated area until the signs are removed. Such signs must only be removed when the air concentration level of chloropicrin is measured to be less than 0.1 ppm AND the air concentration level of methyl bromide is measured to be less than 5 ppm. Signs must remain legible during the entire posting period.

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**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 C.F.R. 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment, restricted-entry levels, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

No instructions elsewhere on this labeling relieve users from complying with the requirements of the WPS.

**ENTRY RESTRICTIONS:**

**Greenhouse Soil Fumigation:** Entry (including early entry that would otherwise be permitted under the WPS) by any person -- other than a correctly trained and equipped handler who is performing a handling task permitted by the WPS -- is **PROHIBITED** in the entire greenhouse (entire enclosed structure/building) from the start of application until 48 hours after application **AND** until the air concentration level of chloropicrin in the working area is measured to be less than 0.1 ppm **AND** the air concentration level of methyl bromide in the working area is measured to be less than 5 ppm. Until the aeration of the soil is complete (usually 10-14 days), non-handlers are permitted in the greenhouse **ONLY** while the air concentration level of chloropicrin in their working area remains less than 0.1 ppm **AND** the air concentration level of methyl bromide in their working area remains less than 5 ppm. If tarps are used for the application, non-handler entry is prohibited during tarp removal and until the air concentration level of chloropicrin in the working area is measured to be less than 0.1 ppm **AND** the air concentration level of methyl bromide in the working area is measured to be less than 5 ppm.

**Outdoor Soil Fumigation:** Entry (including early entry that would otherwise be permitted under the WPS) by any person -- other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling -- is **PROHIBITED** from the start of application until 48 hours after application. In addition, if tarps are used for the application, non-handler entry is prohibited while tarps are being removed.

**NOTIFICATION:** Notify workers of the application by warning them orally and by posing fumigant warning signs, as described in the "Placarding of Fumigated Areas" section of this labeling. Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal.

**Greenhouses -- Soil or Space Fumigation:** Post the fumigant warning signs outside all entrances to the entire greenhouse (entire enclosed structure/building).

**Outdoor Soil Fumigation:** Post the fumigant warning signs at entrances to treated areas.

**PPE FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD:** PPE for entry that is permitted by this labeling is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

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When used for fumigation of enclosed spaces, two persons trained in the use of this product must be present at all times during introduction of the fumigant, initiation of aeration, and after aeration when testing for reentry. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated).

Do not fumigate with this product when commodity temperature is below 50° F.

This fumigant is a highly hazardous material and should be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions, including the attached product manual. All persons working with this fumigant must be knowledgeable about the hazards, and trained in the use of required respirator equipment and detector devices, emergency procedures, and proper use of the fumigant.

Use M-B-R 75 soil fumigant for preplanting application in soil for control of nematodes, certain soil-borne diseases, insects and weeds in nurseries and in certain seed bed, plant bed and field crop areas. Typical pests controlled are nematodes, such as root-knot, lesion, dagger, stunt, spiral, cyst formers, lance, citrus, burrowing, false root-knot, ring, stubby root, awl sheath, stunt, sting and pin damping off diseases caused by certain species of Rhizoctonia, Pythium, Fusarium, Phytophthora, Pyrenochaeta, Sclerotinia and certain others, insects (wireworms, cutworms, rootworms and white grubs) in the soil at time of treatment, and weeds such as chickweed, pigweed and nutgrass, crabgrass, goosegrass, crowfootgrass, barnyard grass, purslane, morning glory and many other broadleaf and grass weeds.

M-B-R 75 will give excellent performance in forest tree, ornamental shrub and turf nurseries, in annual and perennial flower, tomato, tobacco, strawberry and ornamental seed and plant beds; in vegetable seed beds for production of transplants only, and in soil where asparagus, broccoli, cauliflower, eggplants, lettuce muskmelons, onions (dry bulb), peppers, pineapples, strawberry and tomatoes are to be grown for food.

**WHEN TO TREAT:** Treatments can be made in the spring, summer, or fall whenever soil conditions are suitable. In northern states, late summer or early fall treatments are best for land to be planted to early spring crops.

**SOIL PREPARATION:** To facilitate fumigant penetration, crop residues should be worked into the soil and allowed time to decompose before treating. Soil must be in good and workable seed bed condition, with a temperature between 50° F and 80° F at the five-inch level and with adequate moisture for good seed germination. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

**APPLICATION AND DOSAGE:** For overall application of M-B-R 75 use 240 to 320 pounds per acre with chisel-type applicator, having the chisels spaced no more than 12 inches apart and injecting the fumigant at a depth of 6 to 8 inches below the soil surface. For row applications, use at the same dosage rates per acre as suggested for over-all treatment. The actual amounts used per acre, however, will be proportionately less and dependent upon the distance between rows and the width of the treated row area. Due to the volatility of this fumigant, treated soil must be covered with polyethylene film immediately after treatment with simultaneous film laying equipment or by sealing with a roller or cultipacker immediately behind the injection chisels and covered within 20 minutes with polyethylene film or other suitable gas-tight tarpaulin.

**GREENHOUSES:** The use of methyl bromide and chloropicrin in enclosed spaces presents a potential hazard to humans and plant life. Before fumigation train all personnel involved in fumigation (including use of safety equipment). Never fumigate alone. Follow USE PRECAUTIONS. Follow directions for row application with doors open and fans running. Follow directions for AERATION and USE PRECAUTIONS.

**FLORIDA CITRUS:** Preplant or replant treatment of citrus soil for control of Phytophthora and citrus nematodes in Florida sandy soils. Trees which are planted in this treated soil will not bear harvestable fruits for a period of at least 24 months. Apply M-B-R 75 at the rate of 1.5 lbs per 100 square feet with chisels spaced 12 inches apart to a depth of 6-8 inches. Seal immediately with polyethylene film and expose soil to fumigation for 96 hours. Remove cover after exposure and aerate for two weeks before setting transplants in treated soil.

**EQUIPMENT CALIBRATION:** For best results, accurately calibrate fumigation equipment before application. Consult the Dosage Calibration Chart to determine proper orifice size and pressure required to deliver the desired dosage. Calibrations are based on equipment with chisels spaced 12 inches apart.

**AERATION:** Remove tarpaulin after 48 hours. Allow the soil to aerate for two weeks before planting. If, after this period, M-B-R 75 persists in the soil as indicated by odor or by eye irritation on close examination, disc or plow the soil to help aeration. Crop seeds may be planted after 96 hours following the end of exposure period. Where polyethylene film is to be utilized as a mulch, aeration is accomplished by making holes in the film and planting the crop directly through the film.

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DIRECTIONS FOR USE (Cont.)

DOSAGE CALIBRATION CHART

	TRACTOR SPEED			
	2 MILES PER HOUR (176 ft. per min.)		3 MILES PER HOUR (264 ft. per min.)	
DOSAGE POUNDS PER ACRE	ORIFICE DIAMETER IN INCHES	APPROXIMATE PRESSURE PSI	ORIFICE DIAMETER IN INCHES	APPROXIMATE PRESSURE PSI
200	.029	23	.029	34
250	.029	28	.035	30
300	.029	34	.035	36
350	.035	28	.043	29

## USE PRECAUTIONS

Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acidic or high in organic matter. To avoid injury to plants, fertilize as indicated by plant nutrient tests made after fumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use only those containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65°F. Certain crops are tolerant to ammonia, therefore the above rule does not apply to them. Liming highly acidic soil before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

**NOTE:** To avoid the possibility of exceeding residue tolerances, food crops other than those shown on label should not be grown to maturity in soil treated with M-B-R 75 soil fumigant. Transplant such crops to untreated soil or to soil treated according to registered pesticide uses.

Vapors of M-B-R 75 are extremely irritating to the eyes. Provide good ventilation when applying or transferring it to other containers.

M-B-R 75 should not be applied when there is little or no air movement, nor when there is an atmospheric inversion. Do not apply to areas adjacent to fields where valuable crops are growing or near buildings inhabited by humans or livestock.

### PRIOR TO FUMIGATION:

Post all treated areas with warning signs. Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory Agencies as required.

Never fumigate alone. It is imperative always to have an assistant and proper protective equipment in case of accidents.

Drivers of application equipment or persons in charge must advise other workers of all precautions and procedures. In addition, they must instruct their helpers in the mechanical operation of the tractor and how to safely work with the tractor and driver while fumigating.

Handle this fumigant in the open, with the operator "up wind" from the container where there is good ventilation.

Check fumigant pressure system for leaks before beginning operation.

Two trained persons must be present during introduction of the fumigant.

When fumigating soil from a tractor, 5 gallons of water must be carried on the tractor and placed where it is readily accessible. In addition to water available on the tractor, at least 5 gallons additional water must be available from the service truck. This water must be potable and in containers marked "Decontamination water not to be used for drinking."

All trash should be cleaned from the field before starting fumigation.

### DURING FUMIGATION:

This fumigant should not be applied when there is an atmospheric inversion. Since uncomfortable concentration of chloropicrin may drift to nearby areas, immediately cover treated area with plastic tarpaulin for a minimum of 48 hours.

Do not lift injection shanks to turn at the end of a pass until fumigant has drained from system following closure of shutoff valve.

If trash is inadvertently pulled by the shanks to the ends of the field when fumigating, it must be covered by lifting the shanks, then covering the trash with polyethylene film before making the turn for the next pass.

When changing the cylinders, be certain they are turned off and fumigant system is not under pressure.

14 9 14

USE PRECAUTIONS (Cont.)

**AFTER FUMIGATION:** Keep pets, livestock, and other domestic animals out of the treated area during application, during the exposure period as specified for applications in Directions for Use, and during removal of tarpaulin.

Two trained persons must be present during removal of the tarpaulin.

**SPILL AND LEAK PROCEDURES FOR SOIL FUMIGATION:** In case of a rupture of hose or fitting while applying fumigant, immediately stop tractor and motor. Evacuate everyone from the immediate area of the spill or leak. Wear the personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling for entry into affected area to correct problem. Approach from upwind to make necessary repairs. Do not enter area without the required PPE until the spill has evaporated or the leak has been fixed.

Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-8802) if the reportable quantity of 1000 lbs. is exceeded.

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