

5481-529

11/30/2011

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

**NOTIFICATION**

**NOV 30 2011**

Joy Paff  
Amvac Chemical Corporation  
4695 MacArthur Court, Suite 1250  
Newport Beach, CA92660

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4  
Submission Date: October 3, 2011  
Decision #: D 456413

Dear Ms Paff:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated October 3, 2011 for:

**EPA Registration 5481-529      Thimet® Technical Insecticide**

The Registration Division (RD) has conducted a review of this request and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself. If you have any questions, please contact Jessica Rogala at (703) 347-0263 or via email at [rogala.jessica@epa.gov](mailto:rogala.jessica@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "J. Rogala".

Jessica Rogala  
Environmental Protection Specialist  
Insecticide-Rodenticide Branch  
Registration Division (7505P)



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

- Registration  
 Amendment  
 Other

OPP Identifier Number

2011

**Application for Pesticide - Section I**

1. Company/Product Number 5481-529	2. EPA Product Manager	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Thimet Technical	PM#	
5. Name and Address of Applicant (Include Zip Code) Amvac Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

**Section - II**

- Amendment - Explain below  
 Resubmission in response to Agency letter dated \_\_\_\_\_  
 Notification - Explain below
- Final printed labels in response to Agency letter dated \_\_\_\_\_  
 "Me Too" Application  
 Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

**Section - III**

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* <b>Certification must be submitted</b>		If "Yes" Unit Packaging wt. No. per container	If "Yes" Package wt. No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 523.9 Pound Drum	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithographed <input checked="" type="checkbox"/> Paper glued		<input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Joy Paff	Title Regulatory Specialist	Telephone No. (Include Area Code) (949) 221-6123
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		8. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Specialist	
4. Typed Name Joy Paff	5. Date October 3, 2011	



October 3, 2011  
Ms. Sherada Hobgood  
Document Processing Desk  
Office of Pesticide Programs (Notif)  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

**Subject: Notification of Storage and Disposal Statement Per PR Notice 2007-4  
Thimet Technical (EPA Reg. No. 5481-529)**

Dear Sherada:

In accordance with PR Notice 2007-4, please find enclosed the notification to revise labeling for the above listed product. We have updated the Storage and Disposal Statement to comply with the language outlined in the Agency's PR Notice.

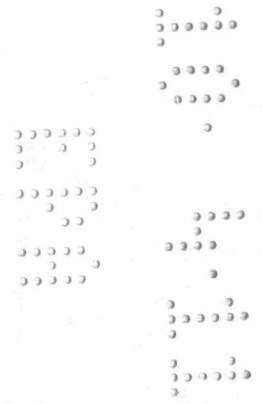
In support of this request, enclosed please find the following:

- 1. Application for Pesticide Registration (EPA Form 8570-1).
- 2. ~~three~~ copies of the label (Ref. No. 8978-20110930r3).
- 3. One copy of the label with the changes highlighted.

It is my understanding that this satisfies the requirements of the Agency's PR Notice and will require no further action. If you have any questions or require additional information, please do not hesitate to contact me at 949-221-6123 or email [joyp@amvac-chemical.com](mailto:joyp@amvac-chemical.com). Thank you for your attention to this matter.

Best regards,

Joy Paff  
Regulatory Specialist



\*4 of 11

# THIMET<sup>®</sup> TECHNICAL INSECTICIDE

## For Manufacturing Purposes Only

Only for formulation into insecticide and/or nematicide products intended for outdoor, non-domestic use on terrestrial crops by ground application for: beans, corn (field and sweet), cotton, peanuts, potatoes, sorghum, soybeans, sugar beets, sugarcane, and lilies (24c use only).

<b>ACTIVE INGREDIENT:</b>		<b>By Weight</b>
Phorate (0,0-diethyl S-[(ethylthio) methyl] phosphorodithioate) .....	91.6%	
<b>INERT INGREDIENTS:</b> .....	8.4%	
	<b>TOTAL</b>	<b>100.0%</b>

Contains 8.2 lbs. of Phorate per gallon.

**KEEP OUT OF REACH OF CHILDREN  
DANGER! 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.)

<b>FIRST AID</b>	
Contains an organophosphate that inhibits cholinesterase	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>Antidote:</b>	<ul style="list-style-type: none"> <li>• Atropine is an antidote.</li> </ul>
<b>EMERGENCY INFORMATION</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
Transportation: CHEMTREC.....	1-800-424-9300
Other: AMVAC.....	1-323-264-3910

**NOTIFICATION**

**NOV 30 2011**

**NOTE TO PHYSICIAN**

Warning signs and symptoms include weakness, muscle twitching, headache, tightness in chest, respiratory depression, blurred vision, miosis, hypersecretion, nausea, vomiting, diarrhea, and abdominal cramps. If poisoning is probable, treat the patient immediately. Clear airway and provide oxygen before administering atropine. Give atropine intravenously (IV), intramuscularly, or through an alternative route such as an endotracheal tube. Depending on severity of poisoning, use 2 to 4 milligrams IV in adults (or 0.05 mg/kg in children under 12 years) every 10-15 minutes until fully atropinized as shown primarily by control of pulmonary secretions. Proceed concurrently with decontamination using proper protective gear; for example, chemical-resistant gloves rather than cotton or leather ones. Use soap (preferably, tincture of green soap) and water, or a dilute hypochlorite solution, for decontaminating skin. Maintain atropinization by repeated doses based on recurrence of symptoms. Twenty to thirty milligrams, or more, may be required during the first 24 hours, and preservative-free atropine preparation should be used if large doses are required. Generally, inducing emesis is not advisable. Avoid opiates, parasympathomimetic agents (e.g., succinylcholine), theophylline, reserpine, and phenothiazines. Suction oral secretions and emesis to avoid aspiration. Artificial respiration or oxygen administration may be necessary. If not contraindicated, gastric emptying by lavage may be considered after ingestion of a potentially life-threatening amount if it can be performed soon after ingestion (within an hour). A slurry of activated charcoal may be medically warranted at an oral dose appropriate for adult, child or infant. For seizures, give benzodiazepine intravenously. Observe patient continuously for at least 72 hours. Allow no further exposure until cholinesterase regeneration has taken place as determined by blood tests. Probable mucosal damage may contraindicate the use of gastric lavage.

Pralidoxime chloride (2-PAM; PROTOPAM chloride) appears to be an effective adjunct to atropine, especially in those severely ill and if given soon. Before it's administered, obtain a blood sample for cholinesterase analysis. Adjusting for age and weight, pralidoxime may be administered as a continuous infusion after a loading dose or using a bolus method.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

**EPA Reg. No. 5481-529**  
**EPA Est. No.**

**Net Contents:**  
As Marked on Container



**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER!**

Danger, fatal if swallowed, inhaled or absorbed through the skin. Corrosive. Causes irreversible eye damage. Rapidly absorbed through skin. Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to poisoning.

**DO NOT GET IN EYES, ON SKIN, ON CLOTHING.**

Wear clean chemical-resistant gloves, goggles and clean waterproof or freshly laundered protective clothing (coveralls, rubber boots, cap, etc.). Destroy and replace gloves frequently. Wash thoroughly with soap and warm water before eating or smoking. Bathe immediately after work and change all clothing. Wash clothing thoroughly with soap and hot water before re-use. In case of contact, immediately remove contaminated clothing and wash skin thoroughly with soap and water.

**DO NOT BREATHE MIST.**

Wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter. If handled indoors, provide mechanical exhaust ventilation. Remove unauthorized persons from operating area.

**ENVIRONMENTAL HAZARDS**

This chemical is very highly toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Before using THIMET technical for the preparation of insecticides, manufacturers should consult Amvac Chemical Corporation for manufacturing and handling instructions.

Only for formulation into insecticide and/or nematicide products intended for outdoor, non-domestic use on terrestrial crops by ground application for: beans, corn (field and sweet), cotton, peanuts, potatoes, sorghum, soybeans, sugar beets, sugarcane, and lilies (24c use only).

Refer to attached Technical Bulletin for formulating and other information.

**STORAGE AND DISPOSAL**

**PESTICIDE STORAGE:** Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**SHIPPERS:** Should spillage or leakage occur in transit, decontaminate area by covering spillage with an absorbent such as a soda, ash, lime, clay or sawdust. Sweep up and wash area thoroughly with a full-strength, liquid household chlorine bleach. Dispose of waste as above.

**PRIOR TO CONTAINER DISPOSAL:** Do not use air pressure or apply heat with open flame to remove contents of this drum. After emptied, drum may retain solid, liquid and/or vapor residues. Continue to observe all precautions, if any, on label. Do not cut, torch or weld on or near the emptied drum.

**CONTAINER DISPOSAL:** ~~Drain drum completely. Add 5 gallons of water, 1 cup of detergent, and 2 pounds of lye. Tighten bungs. Rotate drum to wet all surfaces and let stand for at least 15 minutes. Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.~~ Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE WARRANTED BY THIS LABEL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE FULLEST EXTENT PERMITTED BY LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

Thimet is a registered trademark of Amvac Chemical Corporation.

AMVAC Chemical Corporation  
4100 E. Washington Boulevard  
Los Angeles, CA 90023 U.S.A.  
1-323-264-3910



**DOT/IMO:**

**ORGANOPHOSPHOROS PESTICIDE,  
LIQUID, TOXIC, (PHORATE),  
UN 3018, RQ**

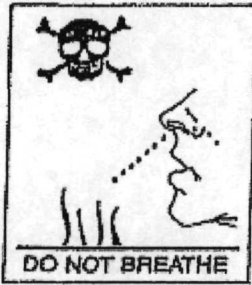




**DANGER—POISON—PRECAUTIONS**



**CAN KILL YOU IF SWALLOWED**  
 This product can kill you if swallowed even in small amounts.



**CAN KILL YOU IF BREATHED**  
 This product can kill you if vapors are breathed.

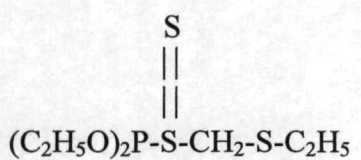


**CAN KILL YOU BY SKIN CONTACT**  
 This product can kill you if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).



# THIMET<sup>®</sup> soil and systemic insecticide TECHNICAL INFORMATION GENERAL PROPERTIES

**CHEMICAL NAME AND STRUCTURES:** THIMET<sup>®</sup> soil and systemic insecticide is 0,0,-diethyl S-[(ethylthio) methyl] phosphorodithioate represented by the structural formula:



**EMPIRICAL FORMULA:** C<sub>7</sub>H<sub>17</sub>O<sub>2</sub>PS<sub>3</sub> Mol. Wt. 260.37

**COMMON NAME:** phorate

**CLASS:** organophosphate

**CHEMICAL AND PHYSICAL PROPERTIES:** Technical THIMET soil and systemic insecticide is a clear liquid with a melting point of less than - 15°C. The water solubility is quite low, approximately 50 ppm. It is miscible in xylene, vegetable oils, carbon tetrachloride, alcohols, ethers, and esters. At room temperature technical THIMET is known to be stable for at least two years. It is subject to hydrolysis under alkaline conditions. The commercial formulations have satisfactory stability.

**THIMET COMMERCIAL PRODUCTS:** THIMET end-use product granules are formulated on 24/48 mesh size attapulgite-type carriers. They are free-flowing granules that allow for easy calibration of granular equipment now being used by growers.

**PHYTOTOXICITY:** Injury may occur if THIMET granules are placed in direct contact with the seeds of beans, soybeans, field and sweet corn, grain sorghum, and sugar beets.

**RESIDUES:** The Office of Pesticide Programs, Environmental Protection Agency, has accepted label claims for crops listed in this bulletin.

**TOXICITY:** THIMET technical and its formulations are poisonous by skin contact, inhalation or swallowing. THIMET formulations have been registered with the Environmental Protection Agency for various insecticidal uses by different methods of application. It is important that you use THIMET formulations only for the specific purposes for which they are registered, and that you read and follow the precautionary instructions on the label before using.

The acute oral and dermal toxicity of THIMET 20-G are as follows:

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>
THIMET 20-G	5.1 mg/kg	32.5 mg/kg

THIMET 20-G is irritating to rabbit eyes.

Thimet is a registered trademark of Amvac Chemical Corporation

# THIMET® soil and systemic insecticide TECHNICAL INFORMATION GENERAL PROPERTIES

Phorate can be absorbed through ocular exposure and can produce systemic effects. Airborne phorate can be absorbed through the lungs to product cholinesterase inhibition.

### EMERGENCY NUMBER

In case of emergency endangering life or property involving this product, call day or night 1-323-264-3910.

**HANDLING AND STORING: DO NOT BREATHE DUST, GET IN EYES, ON SKIN OR ON CLOTHING.** Persons handling this product should wear freshly laundered long-sleeved work clothing, a NIOSH approved respirator and chemical-resistant gloves. Destroy and replace gloves frequently. Wash hands thoroughly before eating, smoking or going to the bathroom. At the end of the work day, a shower should be taken and clothes changed completely. Work clothing should be laundered separately before reuse.

In case of contact, immediately remove contaminated clothing and rinse skin immediately with plenty of water for 15-20 minutes. Symptoms of organophosphate poisoning include headache, blurred vision, constricted pupils, weakness, nausea, abdominal cramps, diarrhea and a feeling of tightness in the chest. Excessive sweating and excessive salivation may also be present. A physician should be called immediately in all suspected cases of organophosphate poisoning. The physician may call the Amvac emergency phone number for additional assistance and information if needed.

Organophosphate pesticides should be stored in a well ventilated area. **Never store pesticides adjacent to products intended for human or animal consumption.** Do not use or store THIMET in or around the home.

**SPILL AND LEAK PROCEDURES:** Restrict traffic in the area of the spill. Individuals performing cleanup and decontamination must wear proper protective equipment which includes; chemical-resistant gloves, chemical-resistant boots, long-sleeved protective coveralls, cap, NIOSH approved respirator and splash goggles.

Cleanup personnel should carefully sweep up spilled material and place into an approved, labeled container (salvage drum). Material should be reworked or disposed of in accordance with Federal (EPA) and State Regulations. Also place broken bags into approved, labeled containers. After cleanup, scrub the affected area thoroughly with a solution of 85% water, 10% bleach (e.g. Clorox) and 5% isopropyl alcohol. Allow the solution to stand for 10-15 minutes. Absorb the solution with an absorbent material such as clay or cat litter and dispose of as outlined above. Thoroughly rinse the affected area with water and repeat the process. At the completion of cleanup and decontamination procedures, the cleanup personnel must shower and change clothes completely. Clothing must be laundered separate from other wash before reuse. Gloves, boots, respirator, and goggles must be cleaned and decontaminated.