



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 27, 2017

Leesha Square
Regulatory Specialist
Lonza Inc.
90 Boroline Road
Allendale, NJ 07401

Subject: Label Amendment – Addition of oil/gas claims and new alternate brand name
Product Name: Barquat 50-65B P&S
EPA Registration Number: 6836-310
Application Date: February 24, 2017
Decision Number: 526855

Dear Ms. Square:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

The alternate brand name, "Barquat Low Foam Additive", has also been added to the product record.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Tara Flint via email at flint.tara@epa.gov or Eric Miederhoff at Miederhoff.eric@epa.gov.

Sincerely,



Eric Miederhoff
Product Manager 31
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

Note to reviewer:

[Items in brackets [AAA] are optional and may/may not be included on final label]

{Items in braces {AAA} are for information purposes and will not appear on final label}

BARQUAT 50-65B P&S

Swimming Pool and Spa Algacide [Algicide]

Outstanding Algae Growth Depressant

Controls anaerobic sulfate-reducers and aerobic heterotrophic bacteria in oil field and petro-chemical water injection systems.

Active Ingredient:

Alkyl [C₁₂-67%; C₁₄-25%; C₁₆-7%; C₁₈-1%] dimethyl benzyl ammonium chloride.....50.0%

[Other] [Inert] Ingredients:50.0%

Total:.....100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER [PELIGRO]

{Note to reviewer: Although this product has a "Danger" signal word, as per the EPA label review manual "The Agency may permit reasonable variations in the placement of the First Aid statement as long as the reference statement, "See First Aid (or Statement of Practical Treatment) on (identify appropriate panel)" appears on the front panel." If the First Aid Statements are placed on the front panel of the final graphic label, the statement below will not reference First Aid :}

See [left] [side] [right] [back] panel for Precautionary Statements [and First Aid].

EPA Reg. No. 6836-310

EPA Est. No. 6836-IL-1

Net Contents (insert container size here)

[DOT symbols]

[Country of origin (insert country)]

[Manufactured in (insert country)]

[Barcode]

Manufactured By:

Lonza Inc.

90 Boroline Rd.

Allendale, NJ 07401

ACCEPTED

06/27/2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 6836-310

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive, causes irreversible eye damage and skin burns. May be fatal if swallowed or inhaled. Harmful if absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear safety glasses when applying. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

FIRST AID:

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

[IN CASE OF EMERGENCY CALL 1-800-654-6911]

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

{Environmental hazards statement for end-use products in containers less than 5 gallons (liquid) use only the first sentence; all others use the full paragraph.}

ENVIRONMENTAL HAZARDS:

This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements 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 EPA.

PHYSICAL OR CHEMICAL HAZARDS:

Combustible. Do not use or store near heat or flame.

{Optional Marketing language}

What? *{For use on front panel of label as a header above/beside product name.}*

Why? *{For use on front panel of label as a header above/beside marketing statements chosen from accepted label text that relates to the consumer features and benefits of product.}*

Barquat 50-65B P&S is efficient, economical and stable in use dilution.

Barquat 50-65B P&S can be used with tile, concrete, metal or plastic surfaces.

Barquat 50-65B P&S keeps pool water clear of visible green and bluegreen algae.

Barquat 50-65B P&S is effective in controlling the growth of the following types of algae: *Chlorella protothecoides* [green algae], *Phormidium inundatum* [blue-green algae] and *Phormidium autumnale*.

Prevents [against] algae growth

Prevents and controls algae growth

Weekly use prevents algae growth
Suitable for all pool types

Reduces growth of green and blue-green algae in pools

[Green] algae control for [inground] [and] [above ground] pools]

Kills [green] algae

Keeps water clear and free of visible [green] algae

For visible green algae

For Treatment of green algae

For green algae

Suitable for opening pools

Can be used in salt pools

Compatible with salt pools

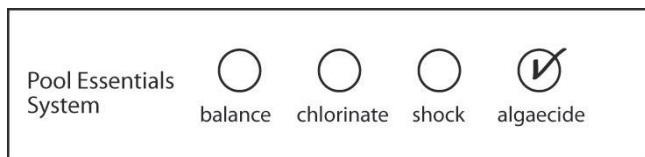
Made in USA [other country of origin]

When? *{For use on front panel of label as a header above/beside text chosen from accepted label text that relates to the consumer anticipated frequency of product use.}*

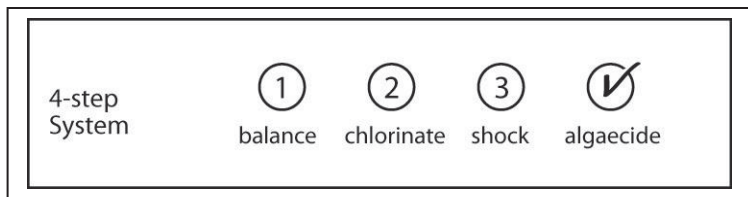
As Needed *{For use on front panel of label that relates to the consumer anticipated frequency of product use.}*

[Optional Marketing language]

{The "Pool Essentials System" box below may be placed on the label to allow easy product category identification by consumers.}



{The "4-step System" box below may be placed on the label to allow easy product category identification by consumers.}



[Optional marketing language that may be used with winter algaecide]

Winter Algae Preventative

Reduces growth of green and blue-green algae in pools over the winter months

Reduces growth of green algae in pools during the winter

Suitable for closing your pool

Step 4

Algae Preventer

Controls the Growth of Algae in Swimming Pools

Effective both as a preventative and as a corrective treatment on most forms of algae

Highly Concentrated

Will not stain

Step 4 Algae Control and Prevention

[Product] is a very low foaming algaecide.

[Product] can be used to control algae where foam is a concern.

[Product] controls algae without foam problems.

[Product] controls algae without creating foam problems.

[Optional Marketing language]

[Product] kills [green] algae without foam problems.

[2 x ½ gallons] [1 gallon] will give an initial treatment for up to 256,000 gallons of pool water.

[2 x ½ gallons] [1 gallon] will provide maintenance treatment for up to 640,000 gallons.

[2 x ½ gallons] [1 gallon] will provide weekly treatment for up to 640,000 gallons.

Will treat 10,000 gallons of water for 40 weeks. [use with 2 x ½ gallon package]

Will treat 20,000 gallons for 20 weeks [use with 2 x ½ gallon package]

Will treat 15,000 gallons for 30 weeks [use with 2 x ½ gallon package]

[Step] 1 Balance

[Step] 2 Sanitize

[Step] 3 Shock

[Step] 4 Prevent Algae *{This step is highlighted}*

50% strength

Non-foaming formula

Advanced non-foaming additive

*{If the following Spanish statement is used, it must appear directly above DIRECTIONS FOR USE.}
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.]*

DIRECTIONS FOR USE:

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

SWIMMING POOLS [AND OUTDOOR SPAS]

Barquat 50-65B P&S must be added along pool [or spa] edges while filter and pump are in operation. To provide time for even distribution in the pool[or spa] water, bathers should wait a minimum of 15 minutes after Barquat 50-65B P&S addition before entering the pool[or spa].

[For crystal clear pool water, follow the HTH 4-step pool care program: Step 1: Test and balance, Step 2: Sanitize, Step 3: Shock weekly, and Step 4: Add algaecide as directed.]

Initial Application:

Pools [and Spas] with Visible Algae

For pools [and spas] with visible algae, add 14 [fluid ounces] *{or}* [fl. oz.] of Barquat 50-65B P&S for every 10,000 gallons of water [5 ppm active quaternary]. After 24 hours, remove dead algae by cleaning. If algae are still present, repeat dosage as necessary.

Clean Pools [and Spas]

For initial treatment of clean pools [and spas], add 5 to 8 [fluid ounces] *{or}* [fl. oz.] of Barquat 50-65B P&S for every 10,000 gallons of water [2 to 3 ppm active quaternary].

Maintenance Dose:

Maintenance additions of 2 to 3 [fluid ounces] {or} [fl. oz.] per 10,000 gallons [0.5 to 1 ppm active quaternary] must be added every 7 days, or more frequently depending on water and use factors. A booster dose of 2 [fluid ounces] {or} [fl. oz.] per 10,000 gallons [0.5 ppm active quaternary] must be provided after each rain.

Sunlight, rainfall, temperature, number of swimmers, and frequency of pool [or spa] use, all affect the rate of chlorine loss. Always maintain chlorine levels between 1-3 ppm. Check water alkalinity, pH and calcium hardness with a test kit or test strip. Ensure all pool [or spa] equipment is working properly. Clean or backwash the filter following manufactures directions.

[FOR WINTERIZATION [OF POOLS]

1. Barquat 50-65B P&S aids in the prevention of algae in swimming pools during the winter months, when the pool is out of service.
2. Test water for hardness, alkalinity, pH and the presence of metals. Take corrective action if necessary.
3. Superchlorinate the pool using a recommended winter shock treatment according to label directions.
4. Apply Barquat 50-65B P&S directly to the pool water, pouring along the edges of the pool. Use 14 [fluid ounces] {or} [fl. oz.] per 10,000 gallons of water [5 ppm active quaternary] and allow to circulate 2 to 4 hours. Pools without covers may need a second treatment in mid-winter or just prior to freezing.
5. Clean pool piping and filter. In geographical areas that experience freezing, drain pool equipment and plumbing lines[, or use an antifreeze recommended for swimming pool plumbing and equipment].]

{Simplified use directions covering product use as a swimming pool algaecide and for a swimming pool winter algaecide [to close pool].}

[How?]

DIRECTIONS FOR USE

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

To Kill Green Algae:

- Test and balance water before using this product. Visit [the Aqua Chem Web Site] {or} [www.aquachem.com] {or} [the Pool Time website] {or} [www.pooltime.com] for complete pool balancing instructions.
- Add 14 fluid ounces for every 10,000 gallons along pool edges with filter and pump operating.
- If algae is still present after 72 hours, repeat dosage.
- Wait at least 15 minutes after adding product before entering the pool.
- This product may foam; do not use in spas, pools with attached spas, or water features.

To Close Pools:

- Add 14 fluid ounces per 10,000 gallons along pool edges and allow filter and pump to operate for 2-4 hours.

[Visit [the Aqua Chem Web Site] {or} [www.aquachem.com] {or} [the Pool Time website] {or} [www.pooltime.com] for complete pool closing instructions.]]

Sunlight, rainfall, temperature, number of swimmers, and frequency of pool use, all affect the rate of chlorine loss. Always maintain chlorine levels between 1-3 ppm. Check water alkalinity, pH and calcium hardness with a test kit or test strip. Ensure all pool equipment is working properly. Clean or backwash the filter following manufactures directions.

Oil Field and Petrochemical Operations

DIRECTIONS FOR USE

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

Biological requirements vary from site to site. Areas frequently requiring control are raw water sources, mixing tanks, screens, and the formation itself. The primary treatment location will vary from site to site depending on the site problems, water flood treatment methods and equipment. The microbiocide should be applied where it will dispense most rapidly and uniformly to the desired area of treatment. This may be at screens, filters, pumps, mixing tanks, storage tanks, pre-filter water, to the water as it is pumped to the formation or it may be pumped directly to the formation.

Barquat 50-65B P&S is typically recommended at 5 – 100 ppm active ingredient. For each application area, the dose can vary from 5 – 200 ppm as active depending upon the application and location of chemical injection, which is equivalent to approximately 0.06 – 2.2 ounces per 42 gallons of fluid.

For use in oil field and/or petrochemical water subsurface injection systems of secondary and/or tertiary oil recovery systems to reduce the number of anaerobic bacteria, aerobic bacteria, and sulfate reducing bacteria.

This product is to be applied at a point in the recovery system where it will be uniformly mixed, such as at the screens, storage tanks, and other mixing device locations.

In general, use a shock dose one or more times weekly of 109 – 230 ounces per 4,200 gallons of fluid until control is achieved. Thereafter, use a maintenance dose of 29 – 109 ounces per 4,200 gallons of fluid.

Re-treat with a weekly shock dose if re-contamination is observed.

Oil Field Water Flood or Salt Water Disposal Systems: (Do not apply in Marine or Estuarine Oil Fields!)

For the control of slime forming and sulfate reducing bacteria in oil field water flood or salt water disposal systems, add 5 - 100 ppm (active) **Barquat 50-65B P&S** (60 – 1,100 ounces per 42,000 gallons of water) continuously. Levels for effective control will vary depending on conditions at the site.

Product addition should be made with a metering pump. This product must be applied where it will dispense most rapidly and uniformly to the desired area of treatment. Product must be slug fed then fed continuously or on an intermittent basis depending on the degree of system fouling.

Heavily fouled system must be precleaned.

Slug: Apply 77 – 154 ounces per 3000 gallons (100 - 200 ppm active) of water for 4-8 hours per day until desired level of control is achieved. To maintain the system in an acceptable manner, utilize a continuous treatment with the microbiocide or apply intermittent doses.

Intermittent Feed: The frequency of intermittent doses will vary with individual systems. Apply 4 – 77 ounces per 3000 gallons (5-100 ppm active) of water for 4-8 hours per day, one to four times a week as needed to maintain control.

Continuous Feed: Fouled systems must be slug treated to get initial control, followed by continuous treatment to maintain control. Apply 4 – 40 ounces per 3000 gallons of water (5 - 50 ppm active) continuously.

For treatment of flow back return water (Post Hydraulic Fracturing) Add 269 – 2,176 ounces **Barquat 50-65B P&S** per 42,000 gallons of water as needed to maintain control.

Packer Fluids, Fracturing Fluids, Completion and Workover Fluids

Barquat 50-65B P&S should be added to these fluids at a point where uniform mixing will occur. Add 5 – 200 ppm (active) Barquat 50-65B P&S (6 - 220 ounces Barquat 50-65B P&S per 4,200 barrels of fluid) to a freshly prepared fluid depending on severity of contamination.

Hydrotesting

Water used to hydrotest pipelines or vessels should contain 5 – 200 ppm (active) Barquat 50-65B P&S (1.4 – 52 ounces Barquat 50-65B P&S per 1,000 gallons flood water) depending on water quality and length of time equipment will be idle.

Gas Storage Wells and Systems

Individual injection wells should be treated with 5 – 200 ppm (active) Barquat 50-65B P&S. Injections should be repeated as needed to maintain control.

Individual drips should be treated with a sufficient quantity of Barquat 50-65B P&S to produce a concentration of 12.5 to 200 ppm (active) Barquat 50-65B P&S when diluted by the water present in the drip. Injections should be repeated as needed to maintain control.

Oil and Gas Production and Transmission Pipelines and Systems

Barquat 50-65B P&S should be added at a point in the system where uniform mixing will occur. The application should be conducted to ensure maximum distribution of **Barquat 50-65B P&S** through the entire internal surface of the pipeline. Injections to the system should be weekly, or as needed to maintain control.

Slug dose:

For a noticeably fouled system, add 25 - 200 ppm (active) Barquat 50-65B P&S (7 to 52 ounces Barquat 50-65B P&S per 1,000 gallons flood water) for 4 – 8 hours based on flow rates. Repeat as necessary until control is achieved.

Subsequent Treatment:

Once control has been achieved, add 5 – 200 ppm (active) Barquat 50-65B P&S (1.4 – 52 ounces Barquat 50-65B P&S per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

Continuous treatment:

Barquat 50-65B P&S can be dosed continuously at a level of 5 – 100 ppm active (1.4 to 26 ounces Barquat 50-65B P&S per 1,000 gallons flood water).

Pipeline Pigging and Scraping Operations

Add **Barquat 50-65B P&S** to a slug of water following the scraper. Add **Barquat 50-65B P&S** at 25 - 400 ppm active (0.7 to 5.2 ounces **Barquat 50-65B P&S** per 100 gallons water) depending on the length of the pipeline and severity of biofouling

OIL FIELD AND PETROCHEMICAL SUBSURFACE INJECTION SYSTEMS

SLUG DOSES: An effective treatment for aerobic heterotrophic bacteria is 5-21 ounces of **Barquat 50-65B P&S** per 1,000 gallons [20-80 ppm active]. A slug dose for anaerobic sulfate-reducers is 3-12 ounces of **Barquat 50-65B P&S** per 1,000 gallons [6-23 ppm active]. The appropriate slug dose should be applied for three to eight hours daily until the desired level of control is achieved. To maintain the system in an acceptable manner, utilize a continuous treatment with the microbiocide or apply intermittent doses.

INTERMITTENT DOSES: To prevent a clean system from fouling, slug doses may be applied intermittently. The frequency of intermittent doses will vary with individual systems and can be established only through experience. Intermittent doses may be required 2 to 3 times a week in some systems. Other systems may require dosing once a week or once every two weeks. For heterotrophic bacteria, use 5-21 ounces of **Barquat 50-65B P&S** per 1,000 gallons [20-80 ppm active]. For anaerobic sulfate reducers, use 3 - 12 ounces of **Barquat 50-65B P&S** per 1,000 gallons [6-23 ppm active]. Maintain these doses for two to eight hours, depending upon the requirements of your system.

CONTINUOUS TREATMENT: Fouled systems should be slug treated to get initial control, followed by continuous treatment to maintain control. Use 3 - 10 ounces of **Barquat 50-65B P&S** per 1,000 gallons [6 to 20 ppm active]. The lower dose concentration is usually satisfactory for Desulfovibria. Higher doses may be needed for the aerobic heterotrophic bacteria.

{Note to reviewer: For Nonrefillable Containers, Ready to Use Household/Residential Use Products}

STORAGE AND DISPOSAL

Store in original container in areas inaccessible to children. Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for recycling if available.

{or}

Store in original container in areas inaccessible to children. Nonrefillable container. Do not reuse or refill this container. Wrap [container] and put in trash or offer for reconditioning if appropriate.

{Note to reviewer: Nonrefillable Containers, Ready-To-Use Products for Commercial/Institutional/Industrial Uses— no new container rinsing directions, not a dilutable per PRN 2007-4}

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage:

Open dumping is prohibited. Store in original container in areas inaccessible to children.

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate 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 representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Nonrefillable container. Do not reuse or refill this container.

[Plastic Containers:] Triple rinse [or equivalent]. Offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

[Metal Containers:] Triple rinse [or equivalent]. Offer for recycling if available or puncture and dispose of in sanitary landfill or by other procedures approved by state and local authorities. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations. DO NOT cut or weld metal containers.

[Bag in Box Containers:] Completely empty bag into application equipment. Then offer for recycling if available or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

{Note to reviewer: For Refillable Containers. Chapter 13, Table 6 of the Label Review Manual states that for "All products in containers that could be burned," the registrant has the option to "Remain silent on burning;" therefore, no incineration language is provided for plastic containers.}

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Pesticide Storage:

Open dumping is prohibited. Store in original container in areas inaccessible to children.

Pesticide Disposal:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate 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 representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller. Cleaning the container before final disposal is the responsibility of the person disposing of the container.

[Plastic or Metal Containers:] To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in sanitary landfill. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.

[For metal containers only: DO NOT cut or weld metal containers.]