

John E. Baldacci, Governor

Brenda M. Harvey, Commissioner

Department of Health and Human Services  
Maine Center for Disease Control and Prevention  
286 Water Street  
# 11 State House Station  
Augusta, Maine 04333-0011  
Tel: (207) 287-5689  
Fax: (207) 287-3165; TTY: 1-800-606-0215

July 13, 2009

Jet Inc.  
Attn.: Trent Lydic, Product Manager  
750 Alpha Drive  
Cleveland, OH 44143

Subject: Product Registration, Jet-Chlor Tablet Chlorinator and Chlor-Away Dechlorinator Tablets

Dear Mr. Lydic:

The Division of Environmental Health has completed a review of a registration application for your company's product. This information was submitted pursuant to Section 1802 of the Maine State Plumbing Code, Subsurface Wastewater Disposal Rules (Rules), for code registration, for use in Maine.

The Jet-Chlor Tablet Chlorinator and Chlor-Away Dechlorinator Tablets comprise a disinfection system for treated effluent. The Jet-Chlor Tablet Chlorinator has a plastic housing with feeder tubes into which chlorine tablets are loaded, and immerses chlorine tablets in an effluent stream, which release chlorine as they erode. The chlorinated effluent is then de-chlorinated with the Chlor-Away Dechlorinator Tablets also using a Jet-Chlor device. The Jet-Chlor Tablet Chlorinator and Chlor-Away Dechlorinator Tablets are designed for use with conventional onsite sewage disposal systems.

Based upon the information you have provided, Jet-Chlor Tablet Chlorinator and Chlor-Away Dechlorinator Tablets are acceptable for use in Maine. In no instance shall chlorinated effluent from a Jet-Chlor Tablet Chlorinator be discharged to an onsite sewage disposal system that depends upon a healthy and thriving biota for treatment of said effluent, until it has been de-chlorinated.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of Jet-Chlor Tablet Chlorinator and Chlor-Away Dechlorinator Tablets. Further, registration of this product for use in the State of Maine does not represent Division preference or recommendation for this product over similar or competing products.

If you have any questions please feel free to contact me at (207) 287-5695.

Sincerely,

James A. Jacobsen, Environmental Specialist IV  
Wastewater and Plumbing Control Program  
Division of Health Engineering  
e-mail: james.jacobsen@state.me.us

/jaj

xc: Product File



750 Alpha Drive, Cleveland, Ohio 44143 U.S.A. • 440.461.2000 FAX 440.442.9008  
email@jetincorp.com • www.jetincorp.com

Mr. James Jacobsen  
286 Water Street, 3<sup>rd</sup> Floor  
11 State House Station  
Augusta, Maine 04333-0011

Dear Jim,

Please find the enclosed applications for a variety of Jet products. Jet Inc. has been producing equipment and supplies for onsite wastewater professionals since 1955. I have included the basic testing and certification reports if they are applicable to the products we provide. If you have any questions or require additional data on some or all of our products please feel free to contact me directly.

Thanks in advance for considering our products for use in the state of Maine.

Best regards,

A handwritten signature in black ink, appearing to read 'Trent Lydic', is written over a light-colored background.

Trent Lydic  
Product Manager  
Jet Inc.  
1-800-321-6960 ext. 215  
[tlydic@jetincorp.com](mailto:tlydic@jetincorp.com)

RECEIVED  
JUL 07 2009  
WASTEWATER &  
PLUMBING PROGRAM



Maine Department of Health and Human Services  
Bureau of Health  
Division of Health Engineering  
Wastewater and Plumbing Control Program

APPLICATION FOR REGISTRATION OF  
EXPERIMENTAL SYSTEM/INNOVATIVE TECHNOLOGY  
OR ONSITE SEWAGE DISPOSAL SYSTEM PRODUCT

Please complete the following Sections. Please print or type.

**Applicant**

Company Name: Jet Inc.  
Contact Person: Trent Lydic  
Address: 750 Alpha Drive  
Town/City: Cleveland State/Province: OH Zip Code: 44143  
Country: USA  
Telephone: 800-321-6960 e-mail: tlydic@jetincorp.com

**Product**

Product Name: Jet-Chlor  
Model: N/A

**Product Classification (choose one)**

**Primary or Secondary Treatment Unit**

- Septic Tank  Extended Aerobic Treatment Unit  Recirculating Aerobic Unit  
 Aerobic Fixed Film Unit  Other (specify) \_\_\_\_\_

**Effluent Filter**

- Septic Tank Outlet Filter  Post-Tank Filter  Other (specify) \_\_\_\_\_

**Disposal Device**

- Gravel-less Disposal Pipe  Gravel-less Disposal Bed  Chamber, Plastic  
 Chamber, Other  Other (specify) \_\_\_\_\_

**Miscellaneous**

- Pipe  Effluent Flow Distribution Device  Other (specify) Calcium Hypochlorite

**Claim**

Describe the product's features (attach additional sheets if necessary).

Jet Chlor is a 2 5/8" tablet consisting of at least 70% available chlorine and is designed for use in disinfecting residential wastewater in tablet feeders.

Describe the product's performance (attach additional sheets if necessary).

Jet Chlor has been shown in testing to dose greater than 15 ppm free chlorine into an effluent waste stream when used with a Jet approved tablet chlorinator.

Has the product received National Sanitation Foundation or Canadian Standards Authority approval?

No  Yes (If "yes", enclose a copy of the certification.)

**IMPORTANT NOTE!**

Don't forget to enclose relevant product literature, engineering specifications, studies, and third party certifications with this application.

I, Trent Lydic, am the  applicant  agent for the applicant of the subject product.  
(print name)

I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department to deny registration for use of the product in Maine.

[Signature]  
 Signature of Applicant  
 Signature of Agent for Applicant

6/30/2009  
Date



# JET-CHLOR® Wastewater Disinfection Systems

Laboratory tested and performance proven, JET-CHLOR® Wastewater Disinfectant Systems offer both commercial and home models for the most practical wastewater chlorination available today. The self contained units are durable, effective and economical. Using special slow dissolving JET-CHLOR® Tablets as the sanitizing agent, JET-CHLOR® Wastewater Disinfectant Systems can chlorinate flows up to 100,000 gallons per day. In addition to unsurpassed efficiency and effectiveness, JET-CHLOR® Wastewater Disinfectant Systems offer a wide range of benefits.

- **Low Initial Cost** ... No need for complicated and expensive pumps, mixing tanks, control devices, electrical wiring or piping. The Jet Tablet Feeder is a simple, non-mechanical, gravity operated device. Compact and lightweight-it is easily installed by one person.
- **Low Operating Costs** ... Uses long lasting, efficient JET-CHLOR® Tablets. Uses no electrical power. Labor costs reduced because there is no need for pre-mixing, no tanks, pumps or control devices to maintain, adjust, repair or replace. Refilling is quick and easy-just place tablets in the feed tubes.
- **Separate Enclosures Not Required** ... The self-contained and totally enclosed tablet feeder does not require a separate manhole, service box or casing when it is buried. Unique design prevents dirt and water from entering and makes tubes easy to remove. For deep installations, risers (optional) are available which extend the tablet feeder to grade.

- **Warranted** ... Each Jet Tablet Feeder carries a ten year limited warranty against defective materials and workmanship.
- **Efficient** ... Chlorine dosage is automatically varied in proportion to the flow. Higher flows expose more tablets to the effluent and correspondingly fewer tablets are exposed during periods of low flow.
- **Automatic-Operates Unattended** ... The tablet feeders' unique design insure automatic mixing and chlorine transfer 24 hours a day after initial adjustments have been made. Long periods between restocking, for example the home tablet feeder usually operates six months or more without restocking. Commercial models can operate up to two months without restocking.
- **Positive Disinfection** ... JET-CHLOR® Tablets deliver high bacteria killing power and inhibit bacteria regrowth.
- **Years and Years of Repair Free Life** ... The tablet feeders' simple, non-mechanical design has no moving parts to wear. Constructed of tough corrosion-proof plastics. Feed tubes and caps will not melt in sun because they are protected by an enclosure with ultra-violet inhibitors.
- **Long Lasting Tablets** ... Efficient, slow dissolving JET-CHLOR® Tablets are a superior source of available chlorine.
- **No Dangerous Gases, Liquids or Powders** ... Uses EPA registered, dry JET-CHLOR® Tablets

## The JET-CHLOR® Wastewater Disinfection System How it Works

As the treated wastewater flows through the tablet feeder, it contacts the chlorine tablets which gradually dissolve and slowly release even, controlled amounts of active chlorine into the wastewater. If the flow rate increases, the liquid level in the tablet feeder rises and more tablets are immersed. If flow rate decreases, the liquid level drops and exposes correspondingly fewer tablets to the effluent.

The rate of chlorination and the chlorine residual can be adjusted and after adjustment they remain constant and in proportion to the flow. If needed, adjustments can be made by varying the number of tablet feed tubes which are filled. In the larger two commercial models, adjustments can also be made by changing the weir plates. These weir plates are calibrated in both Metric and English which enable the user to tell the effluent flow rate at a glance.

Depending on plant size, Jet Commercial Tablet Feeders can operate up to two months without restocking. The Home Plant Tablet Feeder requires only infrequent restocking-twice a year for the average family.

### Applications

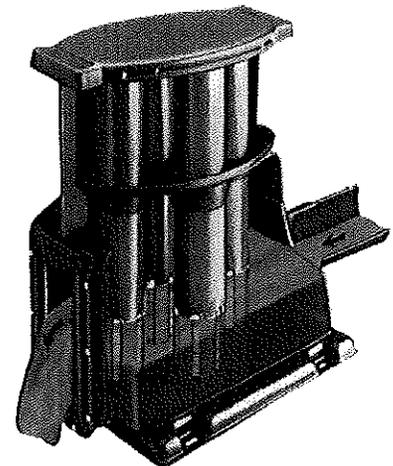
One of the most versatile and effective methods of chlorination available, the JET-CHLOR® System can be used on a broad range of treatment facilities and their installations.

#### Treatment Facility Examples

- Package Plants
- Lagoons
- Oxidation Ditches
- Septic Tank Systems
- Filter Beds
- Physical-Chemical Plants
- Marine Treatment Facilities
- Secondary Treatment Devices, e.g., Sand Filters, etc.
- Contact Stabilization Plants
- Tertiary Treatment Devices
- Home Aerobic Plants
- Spray Irrigation Systems

#### Installation Examples

- Individual Homes
- Industrial Plants
- Schools
- Highway Rest Stops
- Motels
- Restaurants
- Parks
- Housing Subdivisions
- Camps
- Mobile Home Parks



The JET-CHLOR® System is a complete non-mechanical chlorine dispensing system consisting of a Jet Tablet Feeder, and JET-CHLOR® Tablets. The tablet feeder can be installed on the discharge line of new or existing facilities, either above or below the ground. It can also be mounted either above a chlorine contact chamber or to its inside wall.

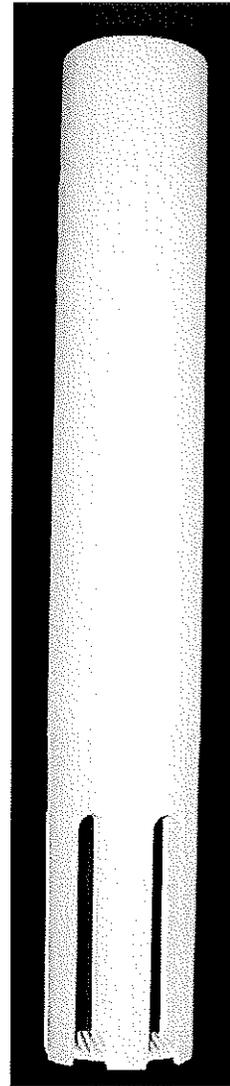
## JET-CHLOR® Tablets

JET-CHLOR® Tablets provide fast, complete bacteria killing power and inhibit bacteria regrowth at the same time. Their convenience, efficiency and dependability is unsurpassed. Developed especially for use in JET Tablet Feeders, JET-CHLOR® Tablets can also be used in other tablet feeders.

JET-CHLOR® Tablets contain at least 70% available chlorine and still are less hazardous to use than other forms of chlorine since there is no exposure to dangerous gases, liquids or powders. JET-CHLOR® Tablets dissolve slowly, evenly, and completely - will not "wick" or dissolve prematurely.

Formulated from pure calcium hypochlorite, JET-CHLOR® Tablets are formed into a solid 5 oz. tablet 2 5/8" diameter, 13/16" thick. JET-CHLOR® Tablets are registered with USEPA-Registration No. 748-285.

JET-CHLOR® Tablets are available from your JET-CHLOR® Dealer in 25 and 45 pound pails or 100 pound drums. Call Jet, Inc. for the name of your local dealer.



## The most versatile, effective method of wastewater chlorination available today.

- Low initial cost, low operating cost.
- Easy one-person installation.
- Automatic, unattended operation.
- No moving parts to wear out.
- No electricity required.
- Four models available to handle flows up to 100,000 gallons per day.

## Why this JET-CHLOR Wastewater Disinfectant System is the Most Complete and Practical Wastewater Chlorination Method Available Today.

The sanitizing power of long-lasting, labor-saving JET-CHLOR Tablets does not require complicated or expensive pumps, mixing tanks, control devices, electrical wiring, or piping. So initial costs are low. All you need is a simple, self-contained, non-mechanical, gravity operated JET Tablet Feeder.

Operating costs are low, too. It's quick and easy to refill our tablet feeders with efficient, long-lasting JET-CHLOR Tablets: just place new tablets in the feed tubes. Our Tablet Feeders operate automatically and unattended. Depending on plant size, JET Commercial Tablet Feeders operate up to two months without restocking. Our Residential Plant Tablet Feeder requires restocking only twice a year for an average family.

Our tablet feeders automatically adjust chlorine dosage in proportion to the flow of wastewater. JET-CHLOR Tablets gradually dissolve and slowly release even, controlled amounts of chlorine into treated wastewater as it flows through the JET Tablet Feeder. If flow rate increases, the liquid level in the tablet feeder rises so that more tablets are immersed. If flow rate decreases, the liquid level in the JET Tablet Feeder drops, exposing fewer tablets to the effluent.

A JET Commercial Tablet Feeder is particularly well suited to package plants. It can chlorinate up to 100,000 gallons a day when used in parallel. Our tablets are ideal as a biocide/algacide to reduce bio-fouling in cooling towers and evaporative water condensers.

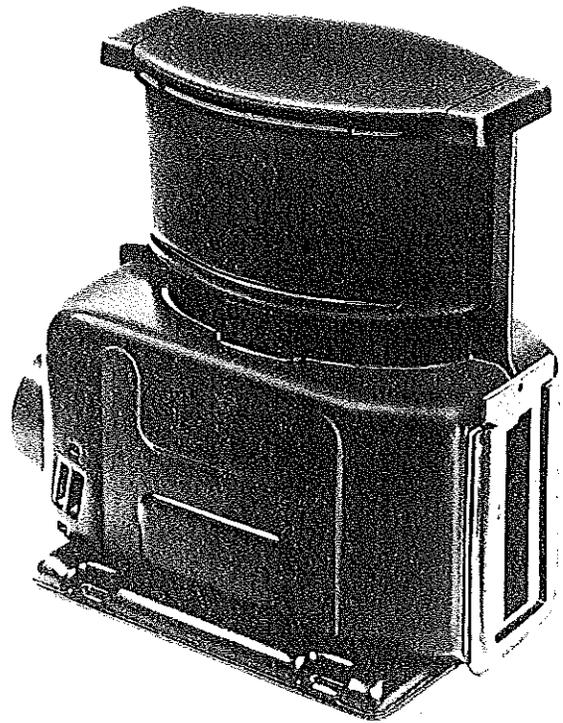
Working together, your JET Tablet Feeder and JET-CHLOR Tablets become an effective wastewater disinfectant system that is ideal for these treatment facilities . . .

Package Plants	Secondary Treatment Devices
Lagoons	(such as sand filters)
Oxidation Ditches	Contact Stabilization Plants
Septic Tank Systems	Tertiary Treatment Devices
Filter Beds	Spray Irrigation Systems
Physical-Chemical Plants	Marine Sanitation Devices

And for these installations . . .

Individual Homes	Motels
Housing Subdivisions	Industrial Plants
Restaurants	Camps
Schools	Highway Rest Stops
Mobile Home Parks	Parks

See our JET-CHLOR Wastewater Disinfectant Systems brochure and Tablet Feeder Installation and Operation Instructions for complete tablet feeder specifications.



### CAUTION

DANGER. Keep JET-CHLOR Tablets out of reach of children. Chlorine tablets are highly corrosive, cause skin and eye damage, and may be fatal if swallowed. See your JET-CHLOR Tablet container label for instructions. It is a violation of federal law to use JET-CHLOR Tablets in a manner that is inconsistent with our labeling instructions.

Your local Jet Dealer is . . .



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# JET-CHLOR TABLET DATA SHEET

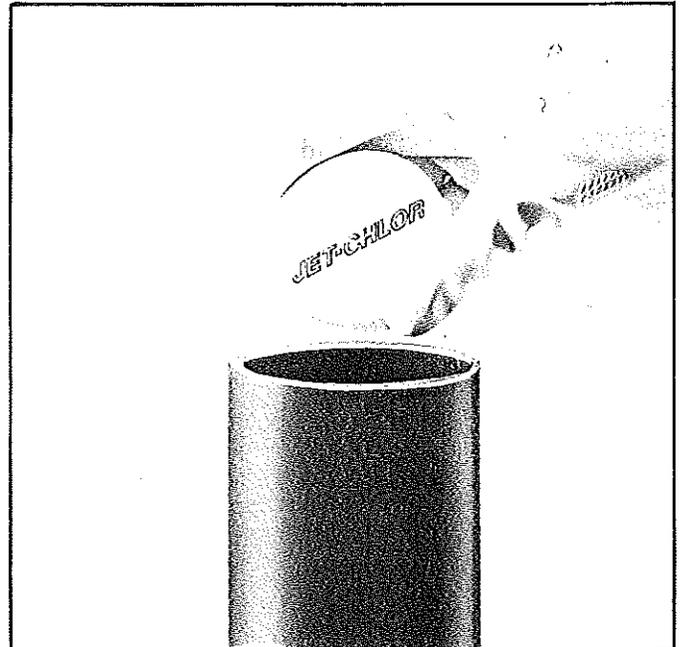
Each efficient, slow dissolving and easy to handle JET-CHLOR Tablet contains a minimum of 70% available chlorine. Once in contact with wastewater, JET-CHLOR Tablets provide fast, complete bacteria killing power and inhibit bacteria regrowth. JET-CHLOR Tablets are registered with the U.S.E.P.A. — Registration No. 45983-1 and offer many advantages over other calcium hypochlorite tablets on the market today.

- Fast, complete bacteria killing power.
- Convenient and easy to handle.
- Less hazardous than other forms of chlorine.
- No dangerous gases, liquids, or powders.
- Less chemical required.
- Dissolves slowly, evenly and completely.
- High available chlorine.
- Can be used in other tablet feeders.
- Controlled release of chlorine.
- Positive disinfection.

Superior to all other products for providing reliable and effective disinfecting power, JET-CHLOR Tablets are formulated from U.S. manufactured pure calcium hypochlorite. Although our tablets were developed especially for use in JET Tablet Feeders, you can safely use them in other manufacturer's tablet feeders as well.

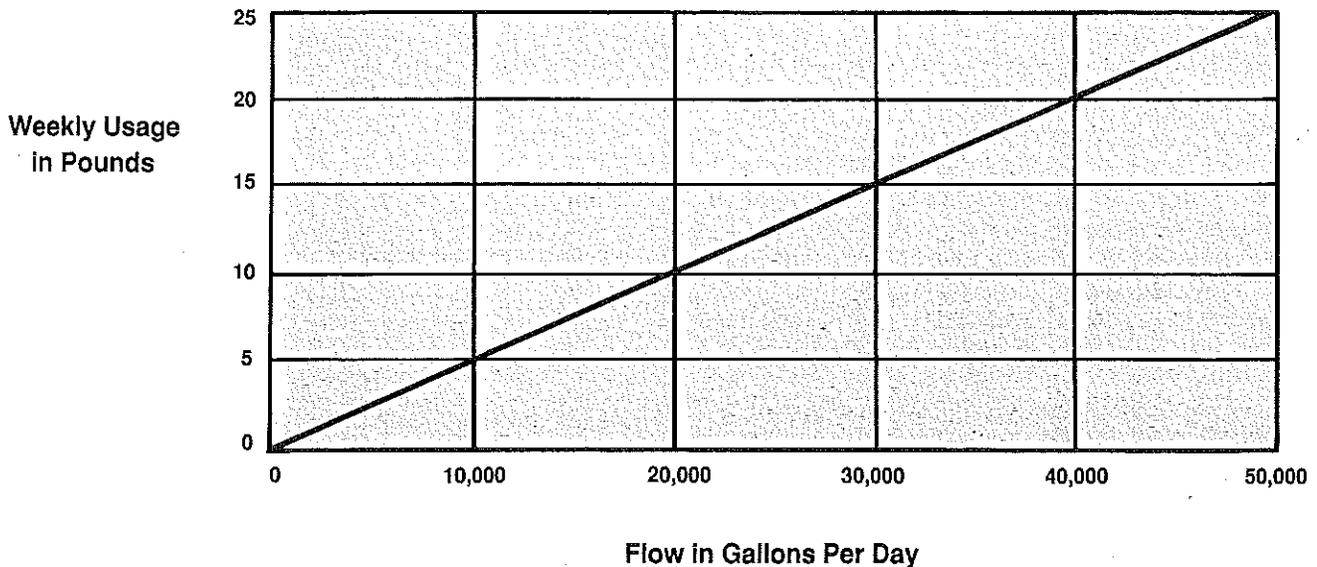
Product Form: Solid Tablet	No Crumbling
Diameter: 2-5/8"	No Wicking
Thickness: 13/16"	No Breaking

Available Chlorine Content: Minimum 70%



JET-CHLOR Tablets are as easy to order as they are to use. Approximately 16 tablets are packed in our 5-pound pail, 80 tablets are in our 25-pound pail, 144 tablets are in our 45-pound pail, and 320 come packed in our 100-pound drum. They are available now from your JET-CHLOR Dealer. For the name of your local JET-CHLOR Dealer, write to Jet Inc., 750 Alpha Drive, Cleveland, Ohio 44143

**JET-CHLOR Tablet Usage Based on Chlorine Dose of 6 PPM**



# MATERIAL SAFETY DATA SHEET

Jet Inc.  
750 Alpha Drive  
Cleveland, OH 44143  
800.321.6960

**For Emergency Assistance Contact Chemtrec 800.424.9300**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Jet-Chlor Calcium Hypochlorite Tablets  
**Product ID:** 22172  
**SYNONYMS:** Calcium Hypochlorite Tablets; Cal Hypo Tablets; Ca (OCI)<sub>2</sub>; MSDS No. 0397  
**ISSUE DATE:** 03/09/07  
**EDITION NO.:** 9

**PREPARER:** Product Safety, Chemicals

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Material/CAS Number</u>	<u>Percent</u>
Calcium Hypochlorite 778-54-3	>70
Calcium Chlorate 10137-74-3	<3
Calcium Carbonate 471-34-1	<2
Calcium Hydroxide 1305-62-0	<2

Note: Minimum 70% Available Chlorine. 30% inert ingredients (includes 5.5-8.5% water).

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

DANGER! Corrosive – Causes severe and irreversible burns to eye and skin. Harmful if inhaled. May cause irritation and inflammation to the respiratory tract. Harmful or fatal if



this chemical produced any carcinogenic response. In addition, this exposure did not result in any adverse effects.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION:

0.088 mg/l (Bluegill) 96-hour LC50. Extreme toxicity.

### ENVIRONMENTAL FATE:

No data at this time.

PPG: 22172 Jet Calcium Hypochlorite Tablets

03/09/2007

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHOD:

Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being used. If this is not possible, dissolve material in water and carefully neutralize dissolved material by adding hydrogen peroxide (one pint of 35% hydrogen peroxide solution per pound of calcium hypochlorite to be neutralized) then dilute the neutralized material with plenty of water and flush to sewer. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. It is your duty to dispose of the chemical materials and/or their containers in accordance with the US Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, as well as any other relevant Federal, State, or local laws/regulations regarding disposal.

## 14. TRANSPORT INFORMATION

**Proper Shipping Name:** Calcium Hypochlorite Hydrated  
**Hazard Class:** 5.1 (Oxidizer)  
**UN Number:** UN2880  
**Packing Group:** II  
**USA-RQ, Hazardous Substance and Quantity:** 10 lbs./4.5 kg. (calcium hypochlorite)  
**Marine Pollutant:** None  
**Additional Information:** USA Shipments Only – Hazardous Substances are regulated in the USA when shipped above their Reportable Quantity (RQ).

## 15. REGULATORY INFORMATION

**USA TSCA:** All components of this product are listed on the TSCA Inventory.

**EU EINECS:** All components in this product are listed on EINECS.

**CANADA DOMESTIC SUBSTANCES LIST (DSL):** This product and/or all of its components are listed on the Canadian DSL.

**AUSTRALIA AICS:** All components of this product are listed on AICS.

**KOREA ECL:** All components in this product are listed on the Korean Existing Chemicals Inventory (KECI).

**JAPAN MITI (ENCS):** All components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) chemical inventory.

**PHILIPPINES PICCS:** All of the components in this product are listed on the Phillipines Inventory of Chemicals and Chemical Substances (PICCS).

**CHINA IECSC:** All components of this product are listed on the inventory of Existing Chemical Substances in China (IECSC) or otherwise exempt.

**SARA TITLE III:**

**SARA (311, 312) Hazard Class:**

Acute Health Hazard. Reactive Hazard. Fire Hazard.

**PPG: 22172 Jet Calcium Hypochlorite Tablets**

**03/09/2007**

**SARA (313) Chemicals:**

Not listed.

**SARA Extremely Hazardous Substance:**

Not listed.

**CERCLA Hazardous Substance:**

The following materials are listed as CERCLA Hazardous Substances in Table 302.4 of 40 CFR Part 302: Calcium Hypochlorite (7778-54-3) RQ = 10 lbs./4.54 kg.

**CANADA REGULATIONS (WHMIS):** Class C – Oxidizing material.

**FIFRA:**

This product is registered with EPA as a pesticide.

## **16. OTHER INFORMATION**

**Other Information:**

NSF Drinking Water Treatment Chemicals Listing – PPG calcium hypochlorite is certified for maximum use at 14 mg/L under NSF/ANSI Standard 60.

**The following has been revised since the last issue of this MSDS:**

Date. Edition. Section 1 has been updated. Section 8 has been updated. Section 12 has been updated. Section 15 has been updated. Section 16 has been updated.

**Previous revision date:** 01/02/2004

**Previous edition number:** 008

**NA = Not Available**