# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY JAN 1/4 2005 WASHINGTON, D.C. 20460



# United States Environmental Protection Office of Pesticide Programs Agency

Zodiac Pool Care, Inc 2028 N. W. 25<sup>th</sup> Avenue Pompano Beach, FL 33069

AGENT: Scientific and Regulatory Consultants, Inc.

P. O. Box 1014

Columbia City, IN 46725

Attention: Sally Hayes

Subject: Nature G45-VC40

EPA Registration No. 67712-1

Submission Dated December 10, 2007

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

- Updated Product Labeling

A stamped copy of the "accepted" product labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely

Marshall Swindell

Product Manager (33)

Regulatory Management Branch 1 Antimerobials Division (7510P)

Enclosure

ACTIVE INGREDIENTS:	
Metallic Silver**	3.51%
Copper Sulfate pentahydrate***	8.23%
OTHER INGREDIENTS	
TOTAL	100.00%
distance of the same of the sa	

\*\*From Silver Nitrate

\*\*\* Copper (Cu) as metallic ... 2.09%

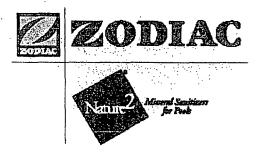
\*The Nature<sup>2</sup> System consists of the patented Nature<sup>2</sup> technology<sup>†</sup> used in conjunction with a chlorine delivery device or 0.5ppm of an EPA registered chlorine pool product.

<sup>†</sup> Nature<sup>2</sup> technology consists of the minerals silver

and copper.

# KEEP OUT OF REACH OF CHILDREN CAUTION

SEE [BACK, SIDE, REAR] PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS



# Nature<sup>2®</sup> G45-VC40

EPA Reg. No. 67712-1 EPA Est. No. 67712-FL-001

NET CONTENTS: [ONE CARTRIDGE] [ONE UNIT]

ACCEPTED
with COMMENTS
EPA Letter Dated:

JAN 14 2008

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

67712-1

#### CHANGE THIS CARTRIDGE EVERY [SIX, FOUR] MONTHS

Use of this cartridge [for] longer than [four, six] continuous months will void the warranty. Discard [the, this] cartridge at the end of [six, four] months.

#### PRECAUTIONARY STATEMENT

#### Hazards to Humans and Domestic Animals

#### Caution

In the unlikely event that a cartridge breaks, mineral media should not be ingested by humans or animals as it may cause gastric distress.

#### FIRST AID

IF INGESTED: Call poison control center or doctor immediately for treatment advice.

#### DISPOSAL

After[six, four months] [one season] of use, discard [the cartridge, Nature<sup>2</sup>, {product name}] in household trash. Do not save [the cartridge, Nature<sup>2</sup>, {product name}] for re-use. [The cartridge, Nature<sup>2</sup>, {product name}] is manufactured with the mineral media sealed inside. In the unlikely event [it, the cartridge, Nature<sup>2</sup>, {product name}] breaks, remove [it, the cartridge] and vacuum out any media introduced into the pool [water].

#### DIRECTIONS FOR USE

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

See owner's manual inside box for directions for use.

Zodiac Pool Care, Inc. 2028 NW 25th Avenue Pompano Beach, FL 33069

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{insert part number}

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#### Efficacy Claims

[4, 6 month] algae [control, treatment, preventative].

14. 6] month Nature<sup>2</sup> cartridge meets [the] EPA [pool] efficacy requirements.

Algae control for [4, 6] months [for the life of the cartridge]

Algae treatment system

[Around, Round, 24/7] the clock algae [fighter, fighting]

[Around, Round, 24/7] the clock [disinfection, disinfecting, sanitation, sanitization]

[Around, Round] the clock algae [treatment, control, preventative] [for your swimming pool]

[Constant, Consistent, Continual, 24/7] algae [control, treatment] [for your swimming pool]

[Disinfects, Sanitizes, Works] [around, round, 24/7] [the clock]

Defend against algae [with] [the] [Nature<sup>2</sup>] [system\*]

#### Destroys bacteria and algae growth with CRT

[Hassle, Trouble] free algae control

[Effectively] [Fights, combats, defends against, inhibits, suppresses, resists, controls] algae [for [4, 6] months]

Keeps algae in check [for [4, 6] months]

In combination with lower chlorine levels, [Nature<sup>2</sup> technology<sup>†</sup>, finsert product name] is proven to [effectively] control[s] [typical, common] swimming pool algae

Keep algae [at bay, under control] [for [4, 6] months]

Kills [common, typical] [swimming] pool bacteria [quickly, in a hurry]

[Insert product name] meets [the] EPA's [pool] efficacy requirements [for a period of [four, six] months].

[Nature2 technology1, fproduct name]] and chlorine work together to effectively [inhibit, reduce, suppress, fight, control] bacteria and algae

[Nature<sup>2</sup> technology<sup>†</sup>, /product name}] effectively [reduces, inhibits, suppresses, controls] bacteria and algae

[Nature<sup>2</sup> technology<sup>†</sup>, {product name}] [Fights, combats, defends against, inhibits, suppresses, resists] algae growth

[Nature<sup>2</sup>, {product name}] minerals help rid the water of harmful bacteria

[Nature2, /product name]/ [patented] mineral[s] [technology] destroy bacteria with a controlled release formula that lasts [4, 6] months

["Product name" features] Nature<sup>2</sup> technology<sup>†</sup> [which] is an effective process that sanitizes pool water using minerals and just 0.5ppm chlorine.

[Proven] control of [common] [swimming pool] bacteria [and] [algae]

Reduces [common] [swimming pool] bacteria [and] [algae]

Sanitize and inhibit [suppress, control] algae [the Nature2 way!]

[Silver, Nature<sup>2</sup> technology<sup>†</sup>, {insert product name}] [with, and] [chlorine] kills bacteria [Silver, Nature<sup>2</sup> technology<sup>†</sup>, [insert product name]] is an effective bactericide [and works well with oxidizing Letter Dated:

agents [Silver, Nature<sup>2</sup> technology<sup>†</sup>, {insert product name}] kills bacteria and lowers chlorine usage.

The Nature<sup>2</sup> System\* [with CRT] effectively sanitizes your pool.

with COMMENTS

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

#### Ease of Use

Algaecide [Algae] and bactericide [bacteria] [control] [all] in one [cartridge]

[Automatic], [Automatically] [dispensing of, dispenses] minerals [and chlorine] [automatically] {the chlorine claim for use with models paired with chlorine dispensers/generators}

Automatically dispenses minerals [and chlorine] {the chlorine claim for use with models paired with Zodiac's salt water generator}

Conveniently simple

Effortless algae [management, control]

Eliminate daily dosing

Engineered [for, to last] [4, 6] months [for your size] [in your] [pool]

Engineered to control bacteria and algae for [4, 6] months

Enjoy the water

Enjoy your pool [with less work]

Enjoy your pool again - eliminate the need for daily dosing

Install in seconds [- lasts [six, four] months]

Installation is simple

[It works [to control algae]] so you don't have to

[lt] does the work for you

[It] works while you [sleep, play, swim]

Less time maintaining, more time relaxing!

[Maintenance, management] free algae control.

[Nature<sup>2</sup>, technology<sup>†</sup>, {product name}] minerals require no manual dosing

No more daily maintenance with [replacement] products that last weeks or months at a time

One [easy] step [to] algae [control, management] [in your swimming pool]

[Reclaim, regain] the fun. [Reduce the work.] [Increase your pool's life]

Save time

Simple, Do-It-Yourself Installation

Simple, [effective, efficacious], cost effective

Simply discard at the end of the season

Simply replace the cartridge every [six, four] months

Simply [replace, discard] the cartridge every [six, four] months

Spend less time shocking your pool

Spend more time in your pool, less time adding chlorine

Take back the fun of your pool by reducing the work and increasing the pool's life

Twice as nice - bacteria and algae control in one cartridge

#### Controlled Release Technology

Controlled copper release prevents pool staining

Controls coppers release to prevent pool staining

Under the Federal Insecticide, amended, for the pesticide, registered under EPA Reg. No.

Controlled release [of] algaecide

Controlled released algae treatment [technology]

Controlled Release Technology

Controlled Release Technology (CRT) controls the release of silver and copper mineral ions into your pool water.

Controlled release technology - no [copper, or, silver] stains, guaranteed!

[Manage, fight, combat, defend against, inhibit, suppress, resist, control] algae with controlled release technology [CRT]

[Nature<sup>2</sup>, technology<sup>†</sup>, {product name}] controls release to prevent staining

#### Innovative Technology

21st century mineral technology

Combined mineral technology

Algae treatment with controlled release technology [CRT]

Alumina [mineral] matrix

[At, On] the leading edge of innovation [[and] technology]

Based on mineral technology (product name may be inserted at beginning)

Bromine compatible

[Complete] [Nature<sup>2</sup>] mineral pool care works in all pools

Contains minerals from nature

Contains [silver, copper] [alumina] [from nature] [!]

Copper [a component of] [Nature<sup>2</sup>, technology<sup>4</sup>, /product name/] effectively [inhibits, suppresses, controls, fights] algae [growth]

[Engineered, Patented] mineral[s] [silver] [copper] [alumina] [technology]

#### Features Nature<sup>2</sup> Technology

In combination with 0.5ppm chlorine, Nature<sup>2</sup> technology<sup>†</sup> [/product name/] is as effective [against common swimming pool algae] as chlorine alone

Innovative pool [water] technology

#### It's Nature<sup>2</sup> Technology

Let [Nature<sup>2</sup>, {product name}] minerals handle the [bulk, majority] of your water sanitation needs

[Manage, fight, combat, defend against, inhibit, suppress, resist, control] algae effortlessly

Mastering the elements

Mineral technology for the 21st century

Nature<sup>2</sup> copper [-alumina, mineral] granule [technology<sup>†</sup>]

Nature<sup>2</sup> – it's elemental

Nature<sup>2</sup> [technology<sup>†</sup>, {product name}] controls release of active ingredients

Nature<sup>2</sup> meets the EPA requirements to lower previously approved chlorine levels by up to 50%\* (\*1.0ppm was EPA's previously approved level for a stabilized swimming pool).

[Nature<sup>2</sup>] [[product name]] [technology<sup>†</sup>, mineral formula] provides silver to destroy bacteria and alumina to help keep the pH in a safe range [without monitoring]

[Providing] innovative technology for over /insert appropriate number! years

Note: Bracketed [] information is optional text/picture/diagram. Text separated by a comma (,) denotes and/or options {Bracket Text} is for administrative purposes. Punctuation, text size, text font, text color, capital letters, lower case letters, italics, bold and underline may vary on final printed labels. Spelling may vary when alternate spelling is acceptable; for example "algaecide" or "algicide"

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with COMMENTS
EPA Letter Dated:

JAN 1/4 2000

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

67712-1

Silver destroys bacteria to reduce chlorine use up to 50%\*

\*compared to the minimum EPA approved level of 1.0 for a stabilized swimming pool

[Silver, Nature<sup>2</sup>, /product name/] [minerals] plus 0.5ppm chlorine is as effective as 1.0ppm chlorine

Swim naturally with mineral technology

Swim naturally with [Nature<sup>2</sup>, mineral, {insert product name<sub>i</sub>] technology<sup>†</sup>

[Sustained, controlled] algaecide release technology

The copper in [Nature<sup>2</sup> technology<sup>†</sup>, {product name}] effectively controls algae

The Nature<sup>2</sup> System\* is an exclusive patented mineral technology.<sup>†</sup>

<sup>†</sup> Nature<sup>2</sup> technology consists of the minerals silver and copper.

[Zodiac -] [creators of, inventors of, pioneers in] pool mineral technology

[Zodiac -] leading the way in [innovation, innovative technology]

#### **Product Benefits**

Lasts one season (up to [four, six] months)

[Lower chlorine levels] help[s] keep [the] pool pH balanced

Lower chlorine levels help prevent damage to equipment and surfaces

[Meets, Equivalent to, As effective as [1.0ppm] chlorine [alone] [in pool testing]

Nature<sup>2</sup> [technology<sup>†</sup>] in the presence of low levels of chlorine is proven to effectively control [typical, common] swimming pool algae.

[Nature<sup>2</sup> technology<sup>†</sup>. {product name}] in the presence of 0.5ppm [low levels of] chlorine is [as] effective against common swimming pool algae [as traditional chlorination].

[Nature<sup>2</sup>, technology<sup>†</sup>] reduces chlorine consumption

[Nature<sup>2</sup>, technology<sup>†</sup>, {product name}] requires no sequestrant

[Nature<sup>2</sup>, {product name}] minerals [also] keeps your pH balanced by acting as a neutralizer

No sequestrant required

#### Reduces chlorine use to just 0.5ppm

Reduces chlorine use up to 50%\* \*Compared to the minimum EPA recommended chlorine levels of 1.0ppm for a stabilized swimming pool

Reduce[s] [your] chlorine use

[Reduces, Inhibits, Suppresses] [typical, common] swimming pool algae [in the presence of [0.5ppm chlorine, low chlorine levels]]

Saves you money

#### **Swimmer Comfort**

Enhance[d, s] swimmer comfort.

Reduces potential for stinging eyes, skin irritation and unpleasant odors.

In combination with [0.5ppm chlorine, low[er] chlorine levels], [Nature<sup>2</sup> technology<sup>†</sup>, [product name] [reduces, lowers] the formation of chloramines, odors and red eyes

[Nature<sup>2</sup>, {product name}] minerals reduce the irritations associated with chlorine like red stinging eyes, faded swimsuits and dry, itchy skin

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FPA Letter Dated:

Under the Tederal Insection Fungiciae, and Robeniciae act as amended, for the pesticide, registered under EPA Reg. No.

[Nature<sup>2</sup>, technology<sup>†</sup>, {product name}] reduces [chlorine use] [and] [the formation of chloramines] [that cause[s]] odor and red eyes.

Reduces [faded swimsuits, odor, red eyes]

Reduces chlorine irritations and odors

Reduces dry itchy skin [irritations] associated with chlorine

Reduces irritations [and odors] associated with chlorine [including red stinging eyes, dry itchy skin, faded bathing suits, premature damage to pool equipment or surfaces and unpleasant odors]

Reduces premature damage to pool equipment or surfaces associated with chlorine

Reduces red [stinging] eye[s] irritations associated with chlorine

Reduces unpleasant odors associated with chlorine

Spend the day [in the pool] without worrying about dry, itchy skin, red burning eyes or faded swimsuits

[Nature<sup>2</sup>, system, {product name}] gives you a reliable way to have fresh, clean, clear water in your [family's] pool.

#### Water Attributes

Clarifly, ies] pool water

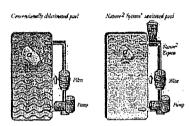
Compare the Difference! {photo dependent on model}

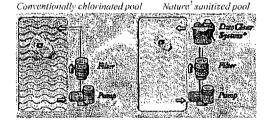












For Crystal Clear Water in All Types of Pools

[For] Water that [looks] [and] [feels] luxurious

Guaranteed - no stains!

Improves water quality by

Destroying bacteria for improved clarity

Helping to maintain a neutral pH for softer water

Makes water brilliantly clear [and] [soft]

[Nature<sup>2</sup>, {product name}] minerals condition the water for extra softness

[Nature<sup>2</sup>, {product name}] minerals make a difference you can see and feel

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with COMMENTS
EPA Letter Dated:

UAN 1.4 2000

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

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[Nature<sup>2</sup> technology<sup>†</sup>, {product name}] controls release to ensure algae control while preventing copper staining

[Nature<sup>2</sup> technology<sup>†</sup>, {product name}] provides [continuous] algae control [from day [1, one]]

[Nature<sup>2</sup> technology<sup>†</sup>, {product name}] [manages, fights, combats, defends against, inhibits, suppresses, resists, controls] [pool] copper levels [for stain-free algae control]

[Nature<sup>2</sup> technology<sup>†</sup>, {product name}] reduces coppers spikes from algaecide products to reduce staining

[Nature<sup>2</sup> technology<sup>†</sup>, {product name}] [regulates, controls] [the copper in] your swimming pool [copper levels] [providing you with] a no stain guarantee

[Nature<sup>2</sup> technology<sup>†</sup>, [{product name}] releases copper for [immediate], hassle free algae control

Nature<sup>2</sup> water is brilliantly clear and soft



The Nature<sup>2</sup> System\* with CRT improves water quality.

Restore[s] water clarity

No stain guarantee

No stains, guaranteed

The perfect combination for clear pool water

Water feels softer with a crystal clear shine

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with COMMENTS
EPA Letter Dated

DAN 14 200

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

67712-1

#### **General Claims**

Assembled in USA from components made in USA, China and Australia

For inground [in-ground] and aboveground pools with cartridge filters up to 25,000 gallons

It's compatible. Compatible with most pool maintenance products.\*\*\*\*

\*\*\*\* Do not use [this product, Nature<sup>2</sup>] with copper-based algaecides, [bromine or bromide chemicals,] or Biguanides (Baquacil®, SoftSwim®, Revacil®). Baquacil is a registered trademark of {insert company name}. Revacil is a registered trademark of {insert company name}.

Made in [the] USA {A picture of the US flag may also appear}

[Mineral cartridge] Lasts [six, four] months

Satisfaction guaranteed.

The Nature<sup>2</sup> logo is a registered trademark owned by Zodiac Pool Care, Inc.

This product is covered by one or more of the following U.S. Patents: 4,608,247 4,935,116 5,352,369 372,069

To keep your patented Nature<sup>2</sup> Sanitizer operating properly, it is necessary to change [this, the] cartridge every [six, four] months.

Will not damage your pool equipment

\_\_\_\_\_\_ VC40

[Nature<sup>2</sup> G Cartridge | For 35,000-45,000 Gallon Inground [In-ground] Pools] |
[Nature<sup>2</sup> G Cartridge | For 25,000-35,000 Gallon Inground [In-ground] Pools] |
[Nature<sup>2</sup> G Cartridge | For 10,000-25,000 Gallon Inground [In-ground] Pools] |
[Nature<sup>2</sup> W Cartridge | For inground [in-ground] pools from 5,000-20,000 gallons] |
[Nature<sup>2</sup> VC Cartridge] For inground [in-ground] pools from 20,000-40,000 gallons] |
[Nature<sup>2</sup>] [G Cartridge] [M Cartridge] [and] [VC Cartridge] [CF] [Express] [Express Cartridge] |

For [Aboveground] [and] [Inground] [In-ground] Pools [up to 25,000 Gallons]

{Part numbers may appear on the respective corresponding label. Part numbers may change without notification} [P/N] [W] [22325] [22330] [22335] [22340] [22345 [22350] [22355] [222360] [22380] [22385] [20055] [20065] [22375] [29550] [28125] [28126] [28135] [28136] [28145] [28146] [28155] [28175] [28185] [28195] [20171] [20080] [W20049] [W20050] [W20051]

Nature<sup>2</sup>

Fits all Nature<sup>2</sup> [Professional G], [Premium M], [R] [A] Vessels

[(Except Nature Limited)]

[Nature2, Vision, Claritec, Clear Vision, EcoSpring, Aquatech, Visipure, White River, Fafco, California, Hawaiian]

{optional cartridge/corresponding vessel checkbox}

Cartridge	Corresponding Vessel	
G25 10,000 - 25,000 Gallons	Professional G Inground [In-ground] Vessel	
G35 25,000 - 35,000 Gallons	Professional G Inground [In-ground] Vessel	
G45 35,000 - 45,000 Gallons	Professional G Inground [In-ground] Vessel	
M25 5,000 - 25,000 Gallons	Premium M Inground [In-ground] Vessel	
A30 5,000 - 30,000 Gallons	A Aboveground Vessel	

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EPA Letter Dated:

JAN 14 2006

Under the Federal Insectición Fungicide, and Rodenticide and ass amended, for the pesticide, registered under EPA Reg. No.

677/2-1

{The term "cartridge" or "this product" on this master label may be replaced with the product name on the marketing label}

<u>ښ</u> ۲۶

#### This carton contains

DuoClear Cartridge	Corresponding System	
DuoClear 25 10,000 - 25,000 Gallons	DuoClear 25	
DuoClear 35 25,000 - 35,000 Gallons	DuoClear 35	
DuoClear 45 35,000 - 45,000 Gallons	DuoClear 45	

Designed to fit DuoClear Systems for residential pools

Zodiac DuoClear Cartridge

For [10,000-25,000] [25,000-35,000] [35,000-45,000] Gallon Inground [In-ground] Pools

Fits DuoClear [25] [35] [45] System

Use only on Zodiac DuoClear systems for inground pools

Cartridge Model: DuoClear [25] [35] [45]

For [10,000 to 25,000] [25,000 to 35,000] [35,000 to 45,000] gallon pools

P/N [W20049] [20050] 20051] Serial No. {insert number}

Replacement Cartridge for Zodiac DuoClear

For Inground [In-ground] Pools Use only on Zodiac DuoClear Systems

**CAUTION:** Use only as directed – This cartridge must not be used in any other model or make of sanitizer. See installation and start-up instructions. Keep out of reach of children.

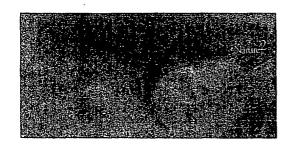
If assistance is required, please call: 1-888-537-6657

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67712-1





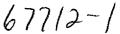




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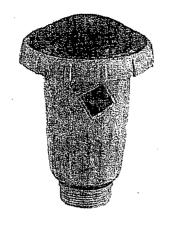




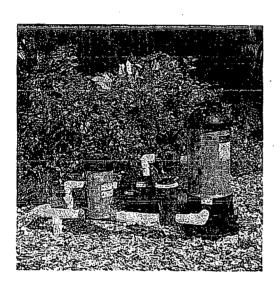
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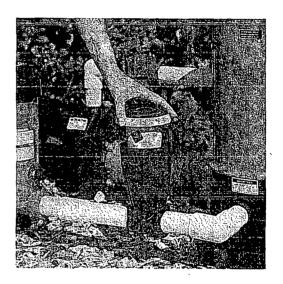
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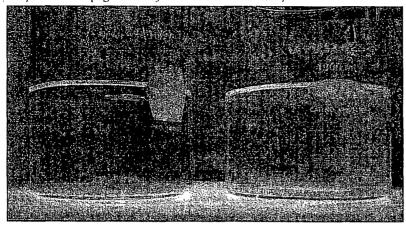


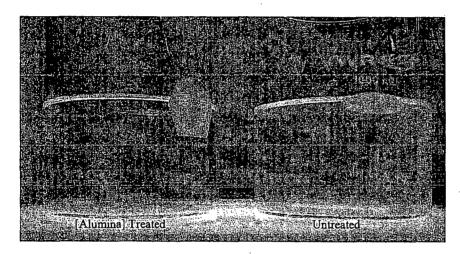
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{Graphics on this page added by amendment on 03/01/07}



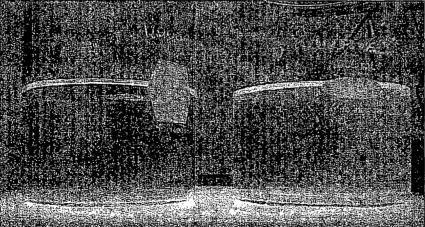


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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

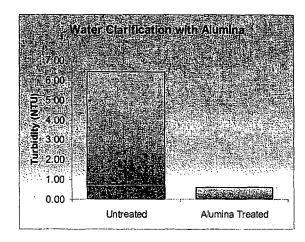
[Clarified] with Alumina

Without Alumina

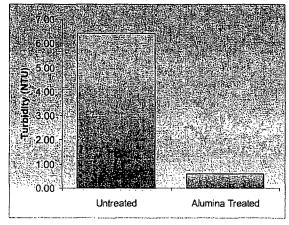


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{Graphics on this page added by amendment on 03/01/07}



#### [Water clarification]



Water Clarification

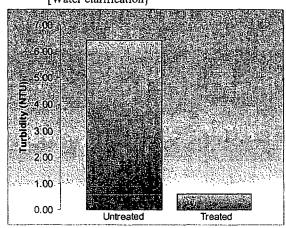
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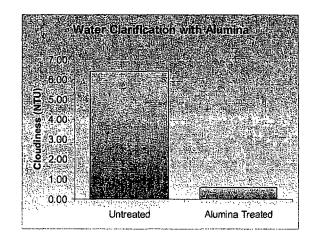
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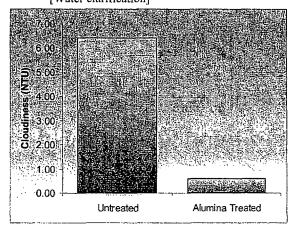
67712-1

(Graphics on this page added by amendment on 03/01/07; [Water clarification]





[Water clarification]

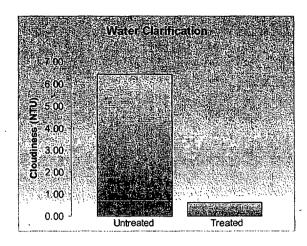


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with COMMENTS
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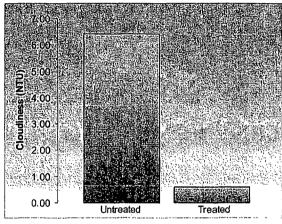
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

67712-1

{Graphics on this page added by amendment on 03/01/07}



## [water clarification]



# 

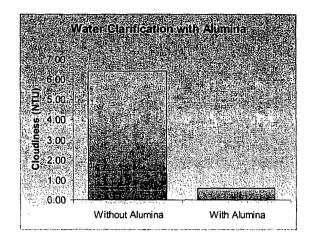
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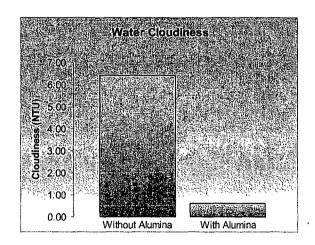
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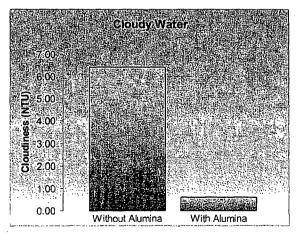
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

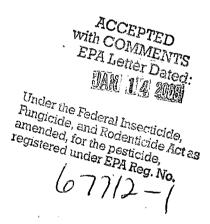
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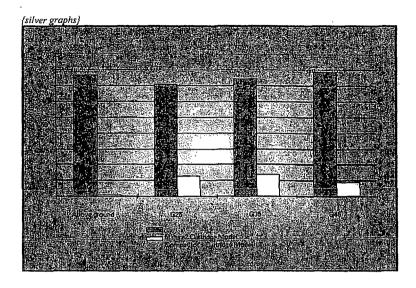


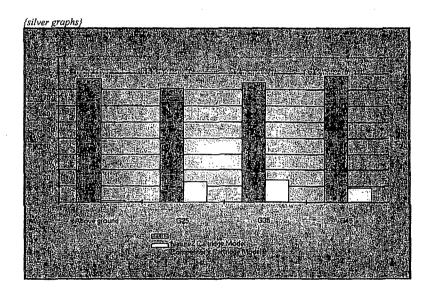






{Graphics on this page added by amendment on 03/01/07}





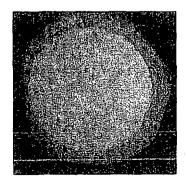
{copper image, may be used with various claims}

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Easy do-it-yourself in-line installation, in minutes [(fits 1 1/2" and 2" rigid PVC pipe)] [includes adapter that fits most aboveground pools]

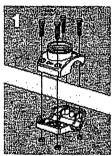
Just twist onto your existing Nature<sup>2</sup> Express Assembly

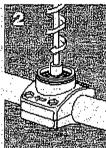
[REPLACEMENT CARTRIDGE FOR NATURE<sup>2</sup> EXPRESS] FOR [ABOVEGROUND] [AND] [INGROUND] [IN-GROUND] POOLS

Installation is simple. Simple, Do-It-Yourself Installation

In just minutes you can install Nature<sup>2</sup> Express, activate the cartridge, and start enjoying a crystal clear [Nature<sup>2</sup>] pool. Nature<sup>2</sup> Express fits most [aboveground [inground] pools up to 25,000 gallons] [with 1 ½" or 2" rigid PVC plumbing].

[Nature<sup>2</sup> Express, This Unit] contains no moving parts [and is unaffected by heavy use, hot weather and water temperature] [and only requires replacing the cartridge every [six, four] months]. [You only have to change the replaceable cartridge every [six, four] months!] Please refer to the operating manual for complete installation instructions.











Turn pool pump off. Secure clamp assembly on the return line. [For aboveground pools with corrugated pipe, use PVC [enclosed] adapter [provided].]

Cut hole in rigid PVC pipe using a power drill and the [enclosed] hole saw [that is provided].

Insert the flow diverter into hole and snap it into place.

Snap dispenser shell onto clamp.

Thread the cartridge into the clamp, turn on pool pump and activate the cartridge. [See] [Refer to your cartridge owner's] manual for start up instructions.

#### PRODUCT SPECIFICATIONS

Capacity

For 5,000 to 25,000 gallon pools

Cartridge Life

6 months

Run Time

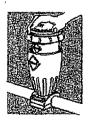
6 hours a day minimum

#### Installation Process:

Please refer to the Nature<sup>2</sup> Express Operating Manual for installation instructions.

Refer to the Nature<sup>2</sup> Express Owner's manual for start-up instructions.

Installation of a Nature<sup>2</sup> Express replacement cartridge takes just minutes. First turn off the pool pump. Then simply remove the existing cartridge from your Nature<sup>2</sup> Express Sanitizer and replace it with your new cartridge.

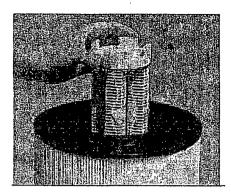


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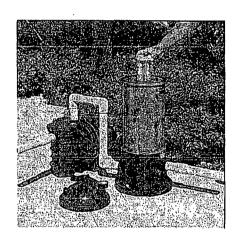
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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No.

# FOR INGROUND [IN-GROUND] AND ABOVEGROUND POOLS WITH CARTRIDGE FILTERS







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with COMMENTS
EPA Letter Dated:



Under the Federal Insecticide.

Nature<sup>2</sup> [G45-VC40] [Cartridge ended, for the pesticide, Owner's Manual

[For Nature<sup>2</sup> G Cartridges, Nature<sup>2</sup> M Cartridges, and Nature<sup>2</sup> VC Cartridge] [For Inground and Aboveground Pools [with Cartridge Filters]] [Features Nature<sup>2</sup> Technology<sup>†</sup> {insert product name} with Nature<sup>2</sup> Technology<sup>†</sup>

EPA Reg. No. 67712-1 EPA Est. No. 67712-FL-001

#### **IMPORTANT**

Pool Owner, save this manual! Builders, leave this manual with the pool owner!

We ask you to take the time to get familiar with this manual.

Thank you for purchasing {insert product name} [with] Nature² [technology†]. We believe the more you know, the more enjoyable your family's swimming experience will be - and the more you will reduce the time, effort and cost of maintaining your pool. Pool owners who switch from conventional chemical programs to the Nature² System\* spend less time maintaining their pools. Every pool has its own characteristics of water type, amount of sunlight, etc. The recipe [included in this manual] will help insure good water quality for your pool. Remember, your authorized [Zodiac, Nature²] dealer can provide professional advice and service.

#### SAFETY INSTRUCTIONS - Important information. Please read prior to installation

{see attached page for optional information that may be placed here}



ATTENTION Failure to heed the following can result in permanent injury, [electrocution] or drowning

#### [ELECTRICAL HAZARD]

[Severe shock will likely occur as a result of a drill or drill cord coming in contact with water. Never allow electric drill or drill cord to come in contact with water. Only plug drill into a Class A (5 Milliampere Trip) protected Ground Fault Circuit Interrupter (GFCI) in accordance with the National Electrical Code Section 680. Please see your drill owner's manual for further safety precautions.]

#### **EQUIPMENT UNDER PRESSURE**

Always turn pump off prior to installing or changing Nature<sup>2</sup> cartridge. Your pump/filter system is operated under pressure and the pressure must be released before you begin work. Please see your pump/filter owner's manual for further instructions.

#### PREVENT CHILD DROWNING

Do not let anyone, especially small children, sit, step, lean or climb on any equipment installed as part of your pool's operational system. Locate the components of your operational system at least 3 feet from the pool so children cannot use the equipment to access the pool and be injured or drown.

#### LOW CHLORINE RECIPE

You must strictly follow the low chlorine recipe included in this manual to maintain proper water chemistry and avoid health hazards. Failure to follow these instructions can lead to sickness from bacteria and other noxious organisms.



#### CAUTION

**Precautionary Statement** 

Hazards to Humans and Domestic Animals

#### CAUTION

In the unlikely event that a cartridge breaks, mineral media should not be ingested by humans or animals as it may cause gastric distress

#### First Aid

IF INGESTED: Call poison control center or doctor immediately for treatment advice.

The Nature<sup>2</sup> [Pool] Sanitizer is designed only for residential swimming pools.

\* The Nature<sup>2</sup> System consists of the patented Nature<sup>2®</sup> technology<sup>†</sup> used in conjunction with a chlorine delivery device or 0.5ppm of an EPA registered chlorine pool product.

<sup>†</sup> Nature<sup>2</sup>TM technology consists of the minerals silver and copper.



Nature<sup>2</sup> is a registered trademark of Zodiac Pool Care, Inc.

[Optional Table of Contents]		
Contents	Page	{the correct page numbers will be inserted for each manual}
Safety Instructions	1	
Start Up	2	<b></b>
[Assembly]	3	ACCEPTED
Balance the Water	3	with COMMENTS
Install the Cartridge	3	EPA Letter Dated:
Recipe	4	JAN, J.A. 2006
Provide Filtration/Circulation	4	Ottes (91.9)
Troubleshooting	5	·
Nature <sup>2</sup> Cartridge Replacement Intervals	6	Under the Federal Insecticide,
Winterizing Your Pool	6	Fungicide, and Rodenticide Act as
Disposal	6	amended, for the pesticide,
Limited Warranty	7	registered under EPA Reg. No.
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#### Directions for Use:

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

Nature<sup>2</sup> Compatibility
Nature<sup>2</sup> Systems\* can be used with all types of pool chemical treatments available except [bromine and bromide based chemicals,] biguanide products (Baquacil<sup>1</sup>, Softswim<sup>2</sup> or Revacil<sup>3</sup>) and copper based algaecides. (<sup>1</sup>A Trademark of finsert company name!, A Trademark of finsert company name! A Trademark of finsert company name!.)

Important: When converting [either] a biguanide [or bromine] treated pool to the Nature<sup>2</sup> System\*, the pool must be completely drained and refilled. Then follow the Nature<sup>2</sup> cartridge start-up procedure below.

[Important: Please make sure that the Nature<sup>2</sup> cartridge you have selected corresponds to your swimming pool size based on gallons of water. Using a Nature<sup>2</sup> cartridge for an undersized pool may cause staining of the pool.]

Before starting up a new [Nature<sup>2</sup>] cartridge, clean debris and algae out of the pool and [pool] equipment.

Important: Do not install the new cartridge until the pool water is clean and chemically balanced.

Balance pool water before installing [Nature<sup>2</sup>] [sanitizer, cartridge].

pН Calcium Hardness 200-400 ppm Total Alkalinity 80-150 ppm

Consult with your [Nature<sup>2</sup>, Zodiac] dealer for specific water balance instructions.

## Balance the Water

To find out if your pool water is balanced:

· take a water sample to your dealer to be tested regularly, or

ask your dealer to recommend a pool test kit for water balance.

Element: pH	If it's too	The surface of your pool can become etched	How to fix: Add pH increaser
Range: 7.4-7.8	low:	Metal parts in the pump and plumbing will corrode.	
	If it's too	"Scale" forms on the surface of your pool.	How to fix: Add pH decreaser
	high:	The water can become cloudy.	
		Equipment can become damaged.	
Element: Calcium	If it's too	Water is less stable.	How to fix: Add calcium
Hardness	low:	In plaster pools, the calcium is taken out of the	hardness increaser.
Range: 200-400 ppm		plaster, causing the surface to deteriorate.	
	If it's too	Rough, discolored deposits ("scale") will form on	How to fix: Drain or dilute
	high:	the pool surface and inside pool equipment.	the pool water. Consult your dealer.
Element: Total	If it's too	It provides no buffer so that you constantly get	How to fix: Use an alkalinity
Alkalinity Range: 80-150 ppm	low:	fluctuating pH readings, which can damage equipment and pool surfaces.	increaser.
<i>a</i> 11	If it's too	White deposits ("scale") form on the tile line. The	How to fix: Add acid to bring
	high:	plaster on pool surface becomes rough or	alkalinity down.
•	3	discolored.	
		The water becomes cloudy or milky white.	

# Install the [Cartridge, Sanitizer]

- 1 Install the cartridge [into your pool filter] after water is balanced. [See, Refer to] [the, your] Nature<sup>2</sup> {the model/product name may also be inserted here} [vessel] operating manual for additional instructions [regarding your particular model's installation]. {the product name may be used in place of or in addition to the term "cartridge"}
- 2 [Superoxidize, Superchlorinate] the pool water with chlorine according to manufacturer's instructions to burn off contaminants and activate cartridge.

Important: Initial superoxidation with chlorine is required to burn off contaminants and activate cartridge.

- 3 Run the circulating pump either:
- 24 hours a day for 4 days, maintaining 1-2 ppm [free] chlorine throughout, or
- 6 hours a day for 14 days, maintaining 1-2 ppm [free] chlorine throughout.
- 4 Let chlorine dissipate to 0.5 ppm once start up period is completed. Do not enter the pool if the free available chlorine residual is over 3 ppm.

ACCEPTED with COMMENTS EPA Letter Dated:

UAN, I.4 2009

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

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#### Recipo

There is one recipe for maintaining clean, clear, sanitized water with minimum time and effort.

This recipe provides the easiest and most economical way to care for your Nature<sup>2</sup> pool.

Low-Chlorine Recipe Once the 4-day or 14-day start-up period is done, allow the free [available] chlorine residual to drop to 0.5 ppm (by reducing the amount of chlorine you add) then:

As needed

Ingredients:
Nature<sup>2</sup> cartridge {product name may be inserted}
Chlorine granules, tablets, liquid or generator
pH and total alkalinity adjusting chemicals
Calcium hardness increaser, if needed
Water test kit

When: What to do:

Every day Run pump and filter at least 6 hours every day.

Once a week Balance pH and total alkalinity.

Twice a week Check chlorine residual; add chlorine to maintain at least [a] 0.5ppm [free chlorine] [range using the chart below].

If water is hazy, superoxidize with chlorine according to manufacturer's instructions. Additional shocking is recommended following rainstorms or heavy bather load. Do not re-enter the pool if the free available chlorine residual is over 3 ppm.

Add the following amounts of chlorine per 10,000 gallons of water to increase free chlorine by 0.5 ppm

Type of Chlorine Containing Compound	% Active Ingredient	% Available Chlorine Content	Ounce Quantity Required	Gram Quantity Required
Sodium Hypochlorite Liquid	5.25	5.25	12.7	361
Sodium Hypochlorite Liquid	9.2	9.2	7.3	206
Sodium Hypochlorite Liquid	10	10	6.5	184
Sodium Hypochlorite Liquid	12	12	5.6	158
Calcium Hypochlorite	65	64	1.1	30
Dichloroisocyanurate	99	62	1.1	30
Lithium Hypochlorite	29	35	1.9	54
Trichloro-s-triazintrione	99	90	0.7	21
Chlorine Gas, from any source including chlorine generators	100	100	0.7	19

# Provide Filtration/Circulation

<b>表现是有几个时间里,可是由</b>	
To manage:	You need to:
Circulation	Follow the manufacturer's directions for keeping the circulating pump in good working order and operate it at
	least six hours a day. Consult your [Nature <sup>2</sup> , Zodiac] dealer for optimum run times.
Filtration	Check the pool's filter periodically and clean it as recommended by the manufacturer

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JAN 1.4 2009

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

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	Guide - [Consult-your   Nation	What to look for	Treatment		
Cloudy water	Poor filtration	Slow filter turnover rates	1 Backwash and clean filter.		
requently caused by			2 Run filter for 24 hours.		
mproper start up. See			3 Increase run time per day		
ection on Start Up [and	Algae growth	Hazy pool water, may have	[Superchlorinate, Superoxidize]		
nstall the Cartridge.]		slightly green appearance.	water with chlorine according to		
		,	manufacturer's instructions and		
			brush pool walls.		
	Unbalanced water	1 High hardness	Balance the pool water.		
		2 High TDS (total dissolved			
		solids) 3 High pH			
	1	4 High total alkalinity			
Algae	Green algae	Pea green color; attaches to	1 Check pH and adjust if		
ligae	Green argae	pool walls sometimes colors	necessary.		
Algae may be caused by		the entire body of water.	2 [Superchlorinate, Superoxidize		
nsufficient levels of oxidizer		ine online sour or water.	with chlorine according to		
ind/or inadequate water			manufacturer's instructions and		
circulation.			brush pool walls.		
			3 Repeat steps 1 and 2 until alga		
			is gone.		
	Black algae	Black spots on pool walls.	1 Brush affected areas.		
•	Mustard algae	Yellow or brown film on	2 [Superchlorinate, Superoxidize		
•		steps or walls.	water with chlorine according to manufacturer's instructions.		
	)		3 Add algaecide.		
			4 Vacuum pool.		
			5 Repeat steps 1 through 4 until		
			algae is gone.		
	Note: Regular algaecide treatments are recommended for outdoor pools that experience persistent				
	algae problems. Do not use algae	treatments containing either cop			
Stains	Blue/green	Copper or iron from pool	1 Adjust pH and total alkalinity		
		equipment corrosion or	ideal ranges.		
		water supply.	2 Vigorously brush stained areas		
	Red/brown	Iron or manganese from	3 Add sequestrant.		
		equipment corrosion or	4 Run filter. 5 Twelve hours later,		
	Black	water supply.	[superchlorinate, superoxidize]		
	Diack	Manganese in water supply.	pool.		
		·	6 Test and balance water.		
			7 Test pool water for dissolved		
			metals.		
	Metal tarnishing	High native mineral content	Clean with soft cloth and mild		
		in water; unbalanced water.	detergent. Test water for		
			minerals; use a sequestrant;		
		YY' 1 YY 11' 1	maintain water balance.		
Scale	Crusty deposits on pool surfaces.	High pH and high total	Adjust pH and total alkalinity to		
		alkalinity  High TDS (total discolved)	ideal ranges.  1 Replace a volume of pool water		
		High TDS (total dissolved solids) or high hardness	with water low in hardness and		
		Levels: PTED	dissolved solids.		
	in Statement	COMMENTS	2 Use sequestrant to prevent sca		
	4	1	buildup if high hardness levels		
	Ze i	A Lettex Dated:	are a continuing problem.		
TC 1.C	please call 1-888-537-6657.]				

Under the Federal Insecticide, Functione, and Rodenticide Act as amended, for the pesticide, registered and EDN Rog. No.

# Nature<sup>2</sup> [Cartridge, Sanitizer] Replacement Intervals

[Use the month indicator ring on the top of the [cartridge, unit]] [Monitor the cartridge replacement light on the {insert product name} control panel] to identify the date on which the cartridge should be replaced.] Always turn pump off prior to installing or changing [a] [Nature², {the model name may be inserted here}][cartridge]. Your pump/filter is operated under pressure and the pressure must be released before you begin work. Please see your pump/filter owner's manual for further instruction.

A cartridge lasts [six, 6, four, 4] months or one season, whichever is shorter. The cartridge should not be used longer than [six, 6, four, 4] continuous months.

{The frost-belt and sun-belt information is optional language that may be used in some but not all owner's manuals} {In frost-belt regions (3-6 month pool season):

Discard your used system when you close your pool at the end of the season. Install a new system when you open your pool in the spring.]

#### [In sun-belt regions (7-12 month pool season):

Replace your Nature<sup>2</sup> cartridge every 6 months whether or not you plan to use the pool for swimming.]

## Winterizing Your Pool

Use these steps as a guide. Consult your dealer for specific information [in, on] your area. Warm Climate

- 1 Reduce the number of hours the pump runs since the cooler weather decreases the spread of algae and other pollutants.
- There is no need to [superoxidize, superchlorinate] the pool during cool weather unless the water becomes cloudy (as may occur after a winter storm). See Cloudy Water in Troubleshooting section.

#### Cold Climate

- 1 Check total alkalinity and pH of pool to make sure that they are in proper balance.
- 2 Vacuum the pool bottom to remove any debris or other potential contaminants.
- 3 [Superoxidize, Superchlorinate] the pool with chlorine according to manufacturer's instructions to clear the water.
- 4 Add a winter algaecide following manufacturer's instructions.

Important: Do not use a winter algaecide with copper in it. [This will void the Nature<sup>2</sup> no-stain warranty.]

- 5 Backwash the filter.
- 6 Drain part of the pool water. The amount to drain varies from one part of the country to another. Consult your dealer for advice.
- 7 Remove the [Nature<sup>2</sup>, sanitizer system] cartridge and discard with household trash.
- 8 Winterize the pipes with pool antifreeze following manufacturer's instructions.
- 9 Drain the water out of all equipment (pump, filter, etc.)
- 10 Store all baskets, hoses and cleaning equipment, indoors if possible.
- 11 Cover the pool with a winter cover.

# Disposal

After [six, four] [months] of use, discard [Nature<sup>2</sup>, {product name may be inserted}] cartridge in household trash. Do not save the [cartridge, it] for re-use. The [cartridge, {product name may be inserted}] is manufactured with the mineral media sealed inside. In the unlikely event [a cartridge, {product name may be inserted}] breaks, remove it and vacuum out any media introduced into the pool.

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EPA Letter Dated:

JAN 1/4 2006

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

{This warranty statement is optional}

# Limited Warranty

Nature<sup>2®</sup> Limited Warranty

The limited warranties contained within this document are the only warranties given with your [Nature<sup>2</sup>, [{insert model name}] [Sanitizer, Cartridge] and supercede any prior warranties. All other warranties, expressed or implied, including the implied warranty of merchantability or the implied warranty of fitness for a particular purpose are hereby disclaimed. Our sole obligation under this warranty, and the purchaser's sole remedy, is limited to repair or replacement of the [Nature<sup>2</sup>, {insert product name}] [Sanitizer, cartridge], [or one of its parts]. The Nature<sup>2</sup> warranty applies to the original owner only.

[THE LIMITED WARRANTIES OF THE [NATURE<sup>2</sup>, {insert product name}] [Cartridge[s]] [Inground] [SANITIZER[s]] [ARE]]: [The] [Nature<sup>2</sup>, {insert product name}] [Sanitizer, cartridges] [are, is] warranted to be free of defects in materials and to perform satisfactorily for a period of [six, four] months from the date of purchase. Nature<sup>2</sup> {insert model name} [Sanitizer, cartridges] [are, is] warranted not to cause copper staining in your pool. This limited warranty requires that you exercise reasonable care of your pool and keep water in balance at all times and not use a copper-based algaecide. This [limited] warranty does not cover discoloration to chromium fittings. This warranty does not cover cartridges used with any biguanide products such as Baquacil® or Soft Swim® [or any products containing Bromine or Bromine-based chemicals]. If the cartridge is defective and does not perform satisfactorily for the entire [six, four] months, we will [make a prorata rebate based on your actual period of use. You are responsible to pay the below-indicated percentage on the then applicable retail cost: <1 month-0%; 1-2 months-25%; 3-4 months-50%; 5-<6 months-75%.][replace your [finsert product name]] [cartridge, sanitizer.]

#### **EXCLUSIONS FROM WARRANTY**

[The] [Nature<sup>2</sup>, {insert product name} [Sanitizer, cartridge[s]] [are, is] designed for use on [inground] [and] [aboveground] pools [with cartridge filters] from [5,000 to 25,000] [5,000 to 45,000] [10,000 to 45,000] gallons [depending on cartridge model]. If it is used in any other application, the warranty is void, and the purchaser and/or pool owner releases the manufacturer from [any and] all claims related to the use of the Nature<sup>2®</sup> [Sanitizer, Express, Cartridge].

This warranty does not cover problems arising in whole or in part from purchaser's negligence, misuse or abuse, improper maintenance or storage, accident, improper installation, improper application, failure to follow all appropriate safety precautions, Acts of God, abnormal weather conditions, damage from plants or animals, and improper use of chemicals.

This warranty specifically excludes all incidental or consequential damages, except where state law requires them to be paid. This warranty gives you specific rights. You may have other rights that vary from state to state.

#### TO SUBMIT A CLAIM

Report claims to Zodiac Pool Care, Inc. by calling 1-888-537-6657. Only the original purchaser may submit a claim under this limited warranty. [All] Claims must be accompanied by an original purchase receipt.



Zodiac Prof Care, Irc. 2008 IM 25th Avenue Pazzaro Besch, Ft. 33453 1-800-YES-PERE

Nature<sup>2</sup> is a registered trademark [owned by, of] Zodiac Pool Care, Inc. Printed in the USA

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(optional manual part numbers) [W17545] [W17510] [W17570] [W17025])

ACCEPTED with COMMENTS EPA Letter Dated:

JAN 1.4 2008

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

67712-1

{Optional manual Language/pictures/diagrams}

#### **CARTRIDGE CAPACITY**

G Cartridge

10,000 - 25,000 gallons 25,000 - 35,000 gallons

35,000 - 45,000 gallons

M Cartridge

5,000 - 25,000 gallons 5,000 - 20,000 gallons

VC Cartridge 20,000 - 40,000 gallons

#### **CARTRIDGE CAPACITY**

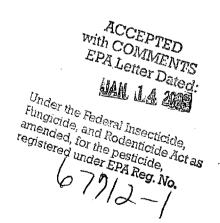
DuoClear Cartridge

10,000 - 25,000 gallons 25,000 - 35,000 gallons

35,000 - 45,000 gallons

{optional language for Safety Instructions}

[Nature<sup>2</sup>] [Nature<sup>2</sup> G Cartridge[s]] [Nature<sup>2</sup> M Cartridge[s]] [and] [Nature<sup>2</sup> VC Cartridge[s]] [{insert model name}] [Cartridge[s]] [have] [has] been designed to sanitize swimming pools from [5,000 to 25,000] [5,000 - 45,000] [10,000 to 45,000] gallons [depending on cartridge model. Make sure that your Nature<sup>2</sup> [{insert model name}] [Sanitizer, Cartridge] corresponds with the proper vessel and is appropriate for your pool size by consulting the chart above.]

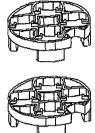


{ Optional manual Language/pictures/diagrams }

The Nature<sup>2</sup> CF consists of 4 sanitizer elements, 2 end caps and 2 end spikes.



Sanitizer Elements



Endcaps



Spikes

Depending upon the size of your swimming pool carridge filter, these parts can be assembled as a bundle of 4 sanitizer elements, or as 2 sticks of 2 elements each.

NOTE: You should first attempt to use the bundle assembly.



# Decide which Nature<sup>2</sup> CF assembly is right for your pool filter.

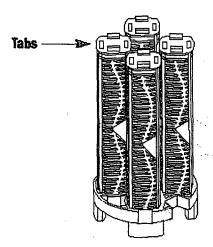
- 1 Turn off the pump and disassemble the pool filter as you normally would to clean the cartridge.
- 2 Check to see if the endcap fits easily into the core of your cartridge filter;
  - · if it does, go to Bundle Assembly
  - · if it does not, go to Stick Assembly

{Optional manual Language/pictures/diagram }

# **Bundle Assembly**

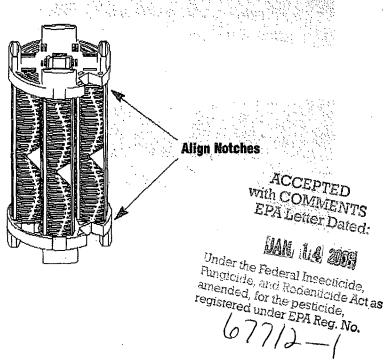
The hole in the center of the endcap accommodates a center rod should your filter have one.

1 Lay an end cap on a flat surface and snap the 4 sanitizer elements into it, so that the tabs are pointing up.



### 2 Snap the other end cap on top.

Important: Be sure that the notch on each end cap lines up together to accommodate an air bleed tube.



{ Optional manual Language/pictures/diagrams }

# Stick Assembly

Important: Use only after attempting the Bundle Assembly.

1 Snap two sanitizer elements together so that each lab and slot line up.



2 Snap the end spike to one end.

**NOTE:** Once assembled, do not attempt to separate the sanitizer elements as the tabs may break.



