**M CARTRIDGE**

**FOR INGROUND POOLS**

**The Low Chlorine Alternative**

Destroys bacteria with CRT

The Mineral Cartridge

**ACTIVE INGREDIENTS:**
- Metallic Silver: 3.51%
- Copper sulfate pentahydrate: 3.28%

**INSERT INGREDIENTS:** 88.26%

**TOTAL:** 100.00%

* From Silver Nature
** Copper (Cu) as Metallic: 2.09%

**The Nature2** System consists of the patented Nature2 technology, used in conjunction with a chlorine delivery device or 0.5 ppm of an EPA registered chlorine pool product.

*Nature2* technology consists of the minerals silver and copper.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See back panel for additional precautionary statements

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

**NET CONTENTS:**
ONE (1) CARTRIDGE

**For INGROUND POOLS**

**The Low Chlorine Alternative**

Nature2 water is brilliantly clear and soft

- Reduces potential for stinging eyes, skin irritation, and unpleasant odors
- Enhances swimmer comfort
- Lower chlorine levels help keep the pool pH balanced

**It's Compatible**

- Compatible with most pool maintenance products
- Will not damage your pool equipment

***Do not use Nature2 Cartridge with copper-based algicides or Biocides***
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 (6) months of use, discard cartridge in household trash. Do not save the cartridge for re-use. The cartridge is manufactured with mineral media sealed inside. In the unlikely event a cartridge breaks, remove it 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.

CHANGE THIS CARTRIDGE EVERY SIX (6) MONTHS
Use of this cartridge for longer than six (6) continuous months will void the warranty. Discard this cartridge at the end of six (6) months.
Nature²® Cartridge Owners Manual

For Nature2 G Cartridges, Nature2 M Cartridges and Nature2 VC Cartridges

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

<table>
<thead>
<tr>
<th>Cartridge Capacity</th>
<th>G Cartridge</th>
<th>10,000 - 25,000 gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>25,000 - 40,000 gallons</td>
</tr>
<tr>
<td></td>
<td></td>
<td>36,000 - 45,000 gallons</td>
</tr>
<tr>
<td>M Cartridge</td>
<td>5,000 - 25,000 gallons</td>
<td></td>
</tr>
<tr>
<td>VC Cartridge</td>
<td>5,000 - 20,000 gallons</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20,000 - 40,000 gallons</td>
<td></td>
</tr>
</tbody>
</table>

We ask you to take the time to get familiar with this manual.
Thank you for purchasing Nature². 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 recipes included in this manual will help ensure good water quality
for your pool. Remember, your Nature² dealer can provide advice and
service.

Safety Instructions - Important Information
Please read prior to installation

Nature² G Cartridges, Nature² M Cartridges and Nature² VC Cartridges have been designed to sanitize swimming pools from 5,000 to 45,000 gallons depending on
cartridge model. Make sure that your Nature² Cartridge corresponds with the proper vessel and is appropriate for your pool size by consulting the chart above.

ATTENTION
Failure to heed the following can result in permanent injury, or drowning.

EQUIPMENT UNDER PRESSURE
- Always turn pump off prior to installing or changing Nature² 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 Nature² System consists of the patented Nature² technology used in conjunction with a chlorine delivery device or 0.5 ppm of an EPA registered chlorine pool product.
*Nature² technology consists of the minerals silver and copper.

The Nature² Pool Sanitizer is designed only for residential swimming pools.
DIRECTIONS FOR USE:
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

NATURE2® COMPATIBILITY
Nature2 Systems® can be used with all types of pool chemical treatments available except biguanide products and copper based algacides.

Important: When converting either a biguanide or bromine treated pool to the Nature2 low chlorine System®, the pool must be completely drained and refilled. Then follow the Nature2 cartridge start-up procedure below.

### Start Up
- Before starting up a new Nature2 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 Nature2 cartridge.
  - pH: 7.4-7.8
  - Calcium hardness: 200-400 ppm
  - Total alkalinity: 80-150 ppm

Consult with your Nature2 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.

<table>
<thead>
<tr>
<th>Element: pH</th>
<th>If it's too low:</th>
<th>How to fix:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range: 7.4-7.8</td>
<td>The surface of your pool can become etched. Metal parts in the pump and plumbing will corrode.</td>
<td>Add pH increaser.</td>
</tr>
<tr>
<td></td>
<td>“Scale” forms on the surface of your pool. The water can become cloudy. Equipment can become damaged.</td>
<td>Add pH decreaser.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element: Calcium Hardness</th>
<th>If it's too low:</th>
<th>How to fix:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range: 200-400 ppm</td>
<td>Water is less stable. In plaster pools, the calcium is taken out of the plaster, causing the surface to deteriorate.</td>
<td>Add calcium hardness increaser.</td>
</tr>
<tr>
<td></td>
<td>Rough, discolored deposits (“scale”) will form on the pool surface and inside pool equipment.</td>
<td>Drain or dilute the pool water. Consult your dealer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Element: Total Alkalinity</th>
<th>If it's too low:</th>
<th>How to fix:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range: 80-150 ppm</td>
<td>It provides no buffer so that you constantly get fluctuating pH readings, which can damage equipment and pool surfaces.</td>
<td>Use an alkalinity increaser.</td>
</tr>
<tr>
<td></td>
<td>White deposits (“scale”) form on the tile line. The plaster on pool surface becomes rough or discolored. The water becomes cloudy or milky white.</td>
<td>Add acid to bring alkalinity down.</td>
</tr>
</tbody>
</table>
Install the Cartridge

1. **Install the cartridge** after water is balanced. Refer to your Nature²® vessel operating manual for additional instructions regarding your particular model’s installation.

2. **Superoxidize 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.

Recipe

There is one (1) 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 Nature² pool.

**Low-Chlorine Recipe**

**Ingredients:**
- Nature² Cartridge
- Chlorine granules, tablets, liquid or generator
- pH and total alkalinity adjusting chemicals
- Calcium hardness increaser, if needed
- Water test kit

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:

**When:**
- Every day: Run pump and filter at least six (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 0.5 ppm range using the chart below.
- As needed: 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.

<table>
<thead>
<tr>
<th>Type of Chlorine Containing Compound</th>
<th>% Active Ingredient</th>
<th>% Available Chlorine Content</th>
<th>Ounce Quantity Required</th>
<th>Gram Quantity Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hypochlorite Liquid</td>
<td>5.25</td>
<td>5.25</td>
<td>12.7</td>
<td>361</td>
</tr>
<tr>
<td>Sodium Hypochlorite Liquid</td>
<td>9.2</td>
<td>9.2</td>
<td>7.3</td>
<td>206</td>
</tr>
<tr>
<td>Sodium Hypochlorite Liquid</td>
<td>10</td>
<td>10</td>
<td>6.6</td>
<td>184</td>
</tr>
<tr>
<td>Sodium Hypochlorite Liquid</td>
<td>12</td>
<td>12</td>
<td>5.6</td>
<td>158</td>
</tr>
<tr>
<td>Calcium Hypochlorite</td>
<td>65</td>
<td>64</td>
<td>1.1</td>
<td>30</td>
</tr>
<tr>
<td>Dichloroisocyanurate</td>
<td>99</td>
<td>62</td>
<td>1.1</td>
<td>30</td>
</tr>
<tr>
<td>Lithium Hypochlorite</td>
<td>29</td>
<td>35</td>
<td>1.9</td>
<td>54</td>
</tr>
<tr>
<td>Trichloro-s-triazinetrine</td>
<td>99</td>
<td>90</td>
<td>0.7</td>
<td>21</td>
</tr>
<tr>
<td>Chlorine Gas, from any source</td>
<td>100</td>
<td>100</td>
<td>0.7</td>
<td>19</td>
</tr>
</tbody>
</table>

Provide Filtration/Circulation

**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 (6) hours a day.
Consult your Nature² dealer for optimum run times.

**Filtration**
Check the pool’s filter periodically and clean it as recommended by the manufacturer.
Troubleshooting Guide
Consult your Nature2® Dealer for additional assistance or call 1-800-822-7933

<table>
<thead>
<tr>
<th>Problem</th>
<th>What to look for</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloudy water</td>
<td>Poor filtration</td>
<td>1 Backwash and clean filter.</td>
</tr>
<tr>
<td></td>
<td>Frequently caused by improper start up. See section on Start Up</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and installing the Cartridge.</td>
<td>2 Run filter for 24 hours.</td>
</tr>
<tr>
<td></td>
<td>Algæ growth</td>
<td>3 Increase run time per day.</td>
</tr>
<tr>
<td></td>
<td>Hazy pool water; may have slightly green appearance.</td>
<td>Superchlorinate water with chlorine according to manufacturer’s</td>
</tr>
<tr>
<td></td>
<td>1. High hardness.</td>
<td>instructions and brush pool walls.</td>
</tr>
<tr>
<td></td>
<td>2. High TDS (total dissolved solids).</td>
<td>Balance the pool water.</td>
</tr>
<tr>
<td></td>
<td>3. High pH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. High total alkalinity.</td>
<td></td>
</tr>
<tr>
<td>Unbalanced water</td>
<td>1. High hardness.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. High TDS (total dissolved solids).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. High pH</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. High total alkalinity.</td>
<td></td>
</tr>
</tbody>
</table>

Algae
Algae may be caused by insufficient levels of oxidizer and/or inadequate water circulation.

<table>
<thead>
<tr>
<th>Algae</th>
<th>What to look for</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green algae</td>
<td>Pea green color; attaches to pool walls; sometimes colors the entire body of water.</td>
<td>1 Check pH and adjust if necessary.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Superchlorinate with chlorine according to manufacturer’s instructions and brush pool walls.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Repeat steps 1 and 2 until algae is gone.</td>
</tr>
<tr>
<td>Black algae</td>
<td>Black spots on pool walls.</td>
<td>1 Brush affected areas.</td>
</tr>
<tr>
<td>Mustard algae</td>
<td>Yellow or brown film on steps or walls.</td>
<td>2 Superchlorinate water with chlorine according to manufacturer’s instructions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Add algæicide.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4 Vacuum pool.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 Repeat steps 1 through 4 until algae is gone.</td>
</tr>
</tbody>
</table>

Note: Regular algæicide treatments are recommended for outdoor pools that experience persistent algae problems. Do not use algæ treatments containing either copper or sodium bromide.

Stains

<table>
<thead>
<tr>
<th>Stains</th>
<th>What to look for</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue/green</td>
<td>Copper or iron from pool equipment corrosion or water supply.</td>
<td>1 Adjust pH and total alkalinity to ideal ranges.</td>
</tr>
<tr>
<td>Red/brown</td>
<td>Iron or manganese from equipment corrosion or water supply.</td>
<td>2 Vigorously brush stained areas.</td>
</tr>
<tr>
<td>Black</td>
<td>Manganese in water supply.</td>
<td>3 Add sequestrant.</td>
</tr>
<tr>
<td>Metal lamishing</td>
<td>High native mineral content in water; unbalanced water.</td>
<td>4 Run filter.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 Twelve hours later, superchlorinate pool.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6 Test and balance water.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 Test pool water for dissolved metals.</td>
</tr>
</tbody>
</table>

Scale

<table>
<thead>
<tr>
<th>Scale</th>
<th>What to look for</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crusty deposits on pool surfaces</td>
<td>High pH and high total alkalinity.</td>
<td>Adjust pH and total alkalinity to ideal ranges.</td>
</tr>
<tr>
<td></td>
<td>High TDS (total dissolved solids) or high hardness levels.</td>
<td>1 Replace a volume of pool water with water low in hardness and dissolved solids.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Use sequestrant to prevent scale buildup if high hardness levels are a continuing problem.</td>
</tr>
</tbody>
</table>

Nature2® Cartridge Replacement Intervals

Use the month indicator ring on the top of the unit to identify the date on which the cartridge should be replaced. Always turn pump off prior to installing or changing Nature2® 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 instructions.

A cartridge lasts six (6) months or one (1) season, whichever is shorter. The cartridge should not be used longer than six (6) continuous months.
Winterizing Your Pool

Use these steps as a guide. Consult your dealer for specific information in 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.
2. There is no need to superoxidize 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 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 Nature²® 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 Nature² 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 (6) months of use, discard Nature² cartridge in household trash. Do not save the cartridge for re-use. The cartridge is manufactured with the mineral media sealed inside. In the unlikely event a cartridge breaks, remove it and vacuum out any media introduced into the pool.
Limited Warranty

NATURE® LIMITED WARRANTY

The limited warranties contained within this document are the only warranties given with your Nature2 G Cartridge, Nature2 M Cartridge and Nature2 VC Cartridge and supersede 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 Nature2 G Cartridge, Nature2 M Cartridge and Nature2 VC Cartridge. The Nature2 warranty applies to the original owner only.

THE LIMITED WARRANTIES OF THE NATURE2 G CARTRIDGE, NATURE2 M CARTRIDGE AND NATURE2 VC CARTRIDGE ARE:

Nature2 G Cartridges, Nature2 M Cartridges and Nature2 VC Cartridges are warranted to be free of defects in materials and to perform satisfactorily for a period of six months from the date of purchase. Nature2 G Cartridges, Nature2 M Cartridges and Nature2 VC Cartridges are 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 algicide. This limited warranty does not cover discoloration to chromium fittings. This warranty does not cover cartridges used with any biguanide products. If the cartridge is defective and does not perform satisfactorily for the entire six (6) months, we will make a prorated 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%.

EXCLUSIONS FROM WARRANTY

Nature2 G Cartridges, Nature2 M Cartridges and Nature2 VC Cartridges are designed for use on inground pools from 5,000 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 Nature2 Sanitizer.

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 Systems, Inc. by calling 1-800-822-7933. Only the original purchaser may submit a claim under this limited warranty. All claims must be accompanied by an original purchase receipt.