

Material Safety Data Sheet

OMNI® CALCIUM HARDNESS INCREASER

Version: 1.0

Revision Date: 08/03/2010

Print Date: 01/24/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: *OMNI® CALCIUM HARDNESS INCREASER*

Product Use Description: Recreational Water Product

Chemical nature: Inorganic salt

Company: Manufacturer
Asepsis, Inc.
OMNI POOL PRODUCTS
P.O. Box 1788
Suwanee, GA
30024-0973

Telephone: (800) 959-7946

Emergency telephone: CHEMTREC: (24 hours) 800-424-9300, 703-527-3887
Poison Control Center (Medical) :: (877) 800-5553

For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by: Product Safety Department
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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Caution

Form: pellets or flakes

Colour: white to off-white

Odour: odourless

Hazard Summary

:
May cause eye irritation.
May cause skin irritation.
May be harmful if swallowed.
Avoid breathing dust or vapor.
May cause respiratory tract irritation.
Do not get in eyes, on skin, or on clothing.

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OSHA Hazards

: THIS MATERIAL IS HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

Potential Health Effects

Primary Routes of Entry

: Skin contact
Eye contact
Inhalation
Ingestion

Inhalation

: Dust may cause irritation of the respiratory tract.

Skin

: May cause skin irritation.
May cause burns or external ulcers.

Eyes

: May cause eye irritation.
Eye burns may occur.

Ingestion

: May be harmful if swallowed.

Chronic Exposure

: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.	Weight percent
calcium chloride	10043-52-4	75 - 97 %
sodium chloride	7647-14-5	1 - 2 %
potassium chloride	7447-40-7	2 - 3 %

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation

: Move to fresh air.
Call a physician if irritation develops or persists.

Skin contact

: Rinse immediately with plenty of water for at least 15 minutes.
Call a physician if irritation develops or persists.

Eye contact

: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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Ingestion : Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Call a physician or poison control centre immediately.

: If swallowed
Do NOT induce vomiting.
Drink 1 or 2 glasses of water.
Call a physician or poison control centre immediately.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : Remarks: not applicable

Fire fighting

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : The product itself does not burn.
When calcium chloride is being dissolved in water, large amounts of heat develop.

Protective equipment and precautions for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Thoroughly decontaminate fire fighting equipment including all fire fighting wearing apparel after the incident.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods for containment / Methods for cleaning up : Using appropriate protective clothing and safety equipment, contain spilled material.
Do not add water to spilled material.
Using clean dedicated equipment, sweep and scoop all spilled material, contaminated soil, and other contaminated material and place into clean dry containers for disposal.
Flush away traces with water.

Additional advice : Treat recovered material as described in the section "Disposal considerations".

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : Avoid contact with skin, eyes and clothing.
Avoid breathing dust.

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Never add water to this product.
When calcium chloride is being dissolved in water, large amounts of heat develop.
Always add product to large quantities of water.
Do not mix with other chemicals.
Use only clean and dry utensils.
Do not add this product to any dispensing devices containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion.
Wash hands thoroughly with soap and water after handling and before eating, drinking or using tobacco.
Do not handle until all safety precautions have been read and understood.

Storage

Requirements for storage areas and containers : Store in original container.
Keep in a dry, cool and well-ventilated place.
Keep out of reach of children.
Keep away from animals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Engineering measures

Engineering measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Use with adequate ventilation.

Personal protective equipment

Eye protection : Safety glasses with side-shields
Hand protection : Wear rubber gloves.
Respiratory protection : A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures : Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : pellets or flakes

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Colour : white
to
off-white

Odour : odourless

Safety data

Flash point : Note: not applicable

pH : Note: Not Available

Melting point/range : ca. 1,422 °F (772 °C)

: Note: not applicable

Water solubility : Note: soluble

Relative vapour density : Note: not applicable

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: High temperatures.
Poor ventilation.
Contamination
Moisture/high humidity.

Materials to avoid : Remarks: Do not mix with other swimming pool/spa chemicals in their
concentrated forms.
Avoid contact with water on concentrated material in the container.

Hazardous reactions : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 900 - 2,100 mg/kg
Species: rat

Acute dermal toxicity : > 5,000 mg/kg
Species: rabbit

Skin irritation : Remarks: May irritate skin.
May cause burns or external ulcers.

Eye irritation : Remarks: May irritate eyes.
Eye burns may occur.

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Repeated dose toxicity
sodium chloride

: Species: rat

Carcinogenicity
sodium chloride

: Species: rat

Species: rat

Species: mouse

Species: rat

Species: rat

Teratogenicity
sodium chloride

: Species: rat

Application Route: Oral

12. ECOLOGICAL INFORMATION

Toxicity to fish
calcium chloride

: 13,400 mg/l
Exposure time: 48 h

Species: *Gambusia affinis* (Mosquito fish)

LC50: 8,350 - 10,650 mg/l

Species: *Lepomis macrochirus* (Bluegill sunfish)

sodium chloride

: LC50: 9,675 mg/l
Exposure time: 96 h

Species: *Lepomis macrochirus* (Bluegill)
flow-through test Analytical monitoring: yes

LC50: 11,100 mg/l
Exposure time: 96 h

Species: *Salmo gairdneri*
flow-through test Analytical monitoring: yes

LC50: 7,341 mg/l
Exposure time: 96 h

Species: Fish

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static test Analytical monitoring: yes

LC50: 17,550 mg/l
Exposure time: 96 h

Species: Gambusia affinis (Mosquito fish)
static test Analytical monitoring: no

LC50: 12,946 mg/l
Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill)
static test Analytical monitoring: no

LC50: 7,650 mg/l
Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)
static test Analytical monitoring: yes

potassium chloride : LC50: 4,236 mg/l
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates.

calcium chloride : LC50: 759 - 3,005 mg/l
Species: Daphnia magna (Water flea)

sodium chloride : EC50: 3,412 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)

EC50: 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

EC50: 4,135 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

potassium chloride : LC50: 3,470 mg/l
Exposure time: 96 h
Species: Daphnia magna (Water flea)

Toxicity to algae

calcium chloride : EC50: 3,130 mg/l
Exposure time: 120 h
Species: Skeletonema costatum (marine diatom)

sodium chloride : 4,967 mg/l

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Exposure time: 72 h
Species: Algae

Toxicity to bacteria
sodium chloride : IC50: > 1,000 mg/l
Species: Bacteria

Bioaccumulation
calcium chloride : Remarks:
This substance is not considered to be persistent, bioaccumulating
nor toxic (PBT).

Further information on ecology

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of waste material in compliance with all federal, state, and local regulations.
Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor.
Contact with incompatible materials could cause a reaction or fire.

Contaminated packaging : Do not re-use empty containers.
Rinse thoroughly before discarding in trash.
Offer rinsed packaging material to local recycling facilities.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

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SECTION 15. REGULATORY INFORMATION

OSHA Hazards : This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SARA 311/312 Hazards : Acute Health Hazard

The components of this product are reported in the following inventories:

EINECS : On the inventory, or in compliance with the inventory

TSCA : On TSCA Inventory

AICS : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL list.

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

HMIS Classification : Health hazard: 2
Flammability: 0
Physical hazards: 0
PPI: Ask supervisor or safety specialist for handling instructions

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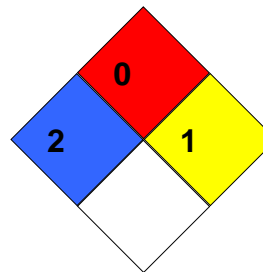
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NFPA Classification

: Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 1



Other Emergency Phone Number

<u>Latin America:</u>	Brazil	+52 113 711 91 44
	All other countries	+44 (0)208 762 8322
<u>Mexico:</u>		+52 555 004 87 63

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.