

# SHEET 0709180

[Print](#)[Go Back](#)[All SDS](#)**SECTION 1: IDENTIFICATION****1.1. Product Identifier**

Product Form: Solid.

Product Name: Preforms, Alloy Sn50/Pb32/Cd18, Coated with RS2.1 Flux

CAS No:

Synonyms:

**1.2. Intended Use of the Product**

Use of the substance/mixture:

**1.3. Name, Address, and Telephone of the Responsible Party**

Company

ALPHA

Global Headquarters

300 Atrium Drive

Somerset, New Jersey 08873

Phone: (800) 367-5460, (908) 791-3000

Leave a message



## 1.4. Emergency Telephone Number

Emergency | 800-424-9300, +1 703-527-3887

number |

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the Substance or Mixture

Classification (GHS-US)

ACUTE TOXICITY|Category 4

(oral) |

CARCINOGENICIT|Category 1A

Y |

TOXIC TO |Category 1A

REPRODUCTION |

(Fertility) |

TOXIC TO |Category 1A

REPRODUCTION |

(Unborn child)|

SPECIFIC |Category 1

TARGET ORGAN |

TOXICITY |

(REPEATED |

EXPOSURE) |

AQUATIC HAZARD|Category 1

(ACUTE) |

AQUATIC HAZARD|Category 1

(LONG-TERM) |

## 2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) | Health Hazard | Exclamation Mark | Environment

Signal Word (GHS-US) |Danger

Hazard Statements (GHS-US) |Harmful if swallowed.  
|May cause cancer.  
|May damage fertility or the unborn child.  
|Causes damage to organs through prolonged or  
|repeated exposure.  
|Very toxic to aquatic life with long lasting  
|effects.

Precautionary Statements |Prevention :  
(GHS-US) |Obtain special instructions before use. Do not  
|handle until all safety precautions have been read  
|and understood. Use personal protective equipment  
as  
|required. Avoid release to the environment. Do not  
|breathe dust. Do not eat, drink or smoke when  
using  
|this product. Wash hands thoroughly after  
handling.  
|Response:  
feel  
|Collect spillage. Get medical attention if you  
|unwell. IF exposed or concerned: Get medical  
|attention. IF SWALLOWED: Call a POISON CENTER or

|physician if you feel unwell. Rinse mouth.

|Storage:

|Store locked up.

|Disposal:

|Dispose of contents and container in accordance

with

|all local, regional, national and international

|regulations.

### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification: None known.

### 2.4. Unknown Acute Toxicity (GHS-US)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Name	Product identifier	%	Classification
			(GHS-US)


Full text of H-phrases: See Section 16

### 3.2. Mixture

Name	Product identifier	%	Classification
			(GHS-US)
Tin	7440-31-5	40-50	
Lead	7439-92-1	30-40	
Cadmium (Non-pyrophoric)	7440-43-9	10-20	
[1R-(1?,4a?,10a?)]-1,2,3,4,4a,9,  1740-19-8		1-10	
10,10a-octahydro-7-isopropyl-1,4			
adimethylphenanthren-			
1-carboxylic acid			
Proprietary Rosin/Resin	-	1-10	
Modified Rosin/Resin	-	0.1-1.0	

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of First Aid Measures

##### First-aid Measures General:

First-aid Measures After Inhalation: Remove victim to fresh air and keep at rest

in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide

artificial respiration or oxygen by trained personnel. It may be dangerous to the

person providing aid to give mouth-to-mouth resuscitation. Get medical attention.

If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

First-aid Measures After Skin Contact: Flush contaminated skin with plenty of

water. Remove contaminated clothing and

shoes. Wash contaminated clothing thoroughly with water before removing it, or

wear gloves. Continue to rinse for at least 15 minutes. Get medical attention.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

First-aid Measures After Eye Contact: Check for and remove any contact lenses.

Immediately flush eyes with running water

for at least 30 minutes, keeping eyelids open. Get medical attention.

First-aid Measures After Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries:

Symptoms/Injuries After Inhalation:

Potential acute health effects: No known significant effects or critical hazards.

Over-exposure signs/symptoms: Adverse symptoms may include the following:  
Reduced fetal weight increase in fetal deaths skeletal malformations.

Symptoms/Injuries After Skin Contact:

Potential acute health effects: No known significant effects or critical

hazards.

Over-exposure signs/symptoms: Adverse symptoms may include the following:

Reduced

fetal weight increase in fetal deaths skeletal malformations.

Symptoms/Injuries After Eye Contact:

Potential acute health effects: No known significant effects or critical hazards.

Over-exposure signs/symptoms: No specific data.

Symptoms/Injuries After Ingestion:

Potential acute health effects: Harmful if swallowed.

Over-exposure signs/symptoms: Adverse symptoms may include the following:

Reduced

fetal weight increase in fetal deaths skeletal malformations.

Chronic Symptoms:

4.3. Indication of Any Immediate Medical Attention and Special Treatment

Needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk

or without suitable training. If it is suspected that mists are still present,  
the

rescuer should wear an appropriate mask or self-contained breathing apparatus.

It

may be dangerous to the person providing aid to give mouth-to-mouth

resuscitation.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable Extinguishing Media:** None known.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Explosion Hazard:** Decomposition products may include the following materials:

Carbon dioxide carbon monoxide metal oxide/oxides.

**Reactivity:**

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:**

**Firefighting Instructions:** Promptly isolate the scene by removing all persons from

the vicinity of the incident if there is a fire. No action shall be taken

involving any personal risk or without suitable training.

**Protection During Firefighting:** Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece

operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures:

#### 6.1.1. For Non-emergency Personnel

Protective Equipment:

Emergency Procedures: No action shall be taken involving any personal risk or

without suitable training. Evacuate surrounding areas. Keep unnecessary and

unprotected personnel from entering. Do not touch or walk through spilled

material. Provide adequate ventilation. Wear appropriate respirator when

ventilation is inadequate. Put on appropriate personal protective equipment.

#### 6.1.2. For Emergency Responders

Protective Equipment:

Emergency Procedures: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### 6.2. Environmental Precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Collect spillage.

#### 6.3. Methods and Material for Containment and Cleaning Up

For Containment:

Methods for Cleaning Up:

Small spill: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach release from upwind.

Prevent entry into sewers, water courses, basements or confined areas. Avoid dust

generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

#### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse

container.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene Measures.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures:

Storage Conditions: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabeled containers. Use appropriate containment to avoid

environmental contamination.

### 7.3. Specific End Use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Occupational exposure limits:

Ingredient name

Exposure limits

Tin

Lead

Cadmium (Non-pyrophoric)

OSHA PEL (United States, 9/2005).

TWA: 2 mg/m<sup>3</sup> 8 hours.

ACGIH TLV (United States, 4/2014).

TWA: 2 mg/m<sup>3</sup>, (as Sn) 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 2 mg/m<sup>3</sup>, (as Sn) 10 hours.

OSHA PEL (United States, 5/2005).

TWA: 0.05 mg/m<sup>3</sup> 8 hours.

ACGIH TLV (United States, 4/2014). Notes: as Pb

TWA: 0.05 mg/m<sup>3</sup>, (as Pb) 8 hours.

OSHA PEL (United States, 2/2013). Notes: as Pb

TWA: 50 ?g/m♦, (as Pb) 8 hours.

NIOSH REL (United States, 10/2013). Notes: See Appendix C -

Supplemental Exposure Limits Note: The REL and PEL also apply  
to other lead compounds (as Pb).

TWA: 0.05 mg/m♦ 10 hours

OSHA PEL Z2 (United States, 2/2013).

TWA: 0.2 mg/m♦ 8 hours. Form: Dust

CEIL: 0.6 mg/m♦ Form: Dust

CEIL: 0.3 mg/m♦ Form: Fume

TWA: 0.1 mg/m♦ 8 hours. Form: Fume

ACGIH TLV (United States, 4/2014).

TWA: 0.01 mg/m♦, (as Cd) 8 hours. Form: Inhalable fraction

ACGIH TLV (United States, 4/2014). Notes: as Cd

TWA: 0.002 mg/m♦, (as Cd) 8 hours. Form: Respirable fraction

OSHA PEL (United States, 2/2013). Notes: as Cd

TWA: 5 ?g/m♦, (as Cd) 8 hours.

## 8.2. Exposure Controls

Appropriate Engineering  
vapor  
Controls | If user operations generate dust, fumes, gas,  
| or mist, use process enclosures, local exhaust  
| ventilation or other engineering controls to keep  
| worker exposure to airborne contaminants below any  
| recommended or statutory limits.

Environmental exposure controls: Emissions from  
ventilation or work process equipment should be  
checked to ensure they comply with the  
requirements | of environmental protection legislation. In some  
| cases, fume scrubbers, filters or engineering  
| modifications to the process equipment will be  
| necessary to reduce emissions to acceptable  
levels.

## Personal Protective Equipment |

Materials for Protective |

Clothing |

Hand Protection | Chemical-resistant, impervious gloves complying  
with | an approved standard should be worn at all times

assessment | when handling chemical products if a risk  
| indicates this is necessary. Considering the

|parameters specified by the glove manufacturer,  
|check during use that the gloves are still  
retaining  
|their protective properties. It should be noted  
that  
|the time to breakthrough for any glove material  
may  
|be different for different glove manufacturers. In  
|the case of mixtures, consisting of several  
|substances, the protection time of the gloves  
cannot  
|be accurately estimated.

Eye Protection |Safety eyewear complying with an approved standard  
|should be used when a risk  
|assessment indicates this is necessary to avoid  
|exposure to liquid splashes, mists,  
|gases or dusts. If contact is possible, the  
|following protection should be worn, unless the  
|assessment indicates a higher degree of  
protection:  
|safety glasses with sideshields.

Skin and Body Protection |Body protection: Personal protective equipment for  
|the body should be selected based on the task  
being  
|performed and the risks involved and should be

|approved by a specialist before handling this  
|product.

|Other skin protection: Appropriate footwear and  
any  
|additional skin protection measures should be  
|selected based on the task being performed and the  
|risks involved and should be approved by a  
|specialist before handling this product.

Respiratory Protection  
respirator  
|Use a properly fitted, particulate filter  
|complying with an approved standard if a risk  
|assessment indicates this is necessary. Respirator  
|selection must be based on known or anticipated  
|exposure levels, the hazards of the product and  
the  
|safe working limits of the selected respirator.

Thermal Hazard Protection |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State |Solid.

Appearance |

Odor	Not available.
Odor Threshold	Not available.
pH	Not available.
Relative Evaporation Rate (butylacetate=1)	Not available.
Melting Point	Not available.
Freezing Point	Not available.
Boiling Point	Not available.
Flash Point	Not available.
Auto-ignition Temperature	Not available.
Decomposition Temperature	Not available.
Flammability (solid, gas)	Not available.
Vapor Pressure	Not available.
Relative Vapor Density at 20 ◆C	
Relative Density	1
Specific Gravity	
Solubility materials:	Partially soluble in the following  cold water and hot water.
Partition coefficient:	Not available.

n-octanol/water	
Viscosity	Not available.
Lower Flammable Limit	Not available.
Upper Flammable Limit	Not available.

#### 9.2. Other Information

VOC: 10.2 g/l

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical Stability

The product is stable.

#### 10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to Avoid

#### 10.5 Incompatible Materials

Highly reactive or incompatible with the following materials: alkalis and moisture

Reactive or incompatible with the following materials: acids Slightly reactive

or

incompatible with the following materials: oxidizing materials and reducing

materials.

#### 10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects

Acute Toxicity:

Skin Corrosion/Irritation:

Serious Eye Damage/Irritation:

Respiratory or Skin Sensitization: Not available.

Germ Cell Mutagenicity: No known significant effects or critical hazards.

Carcinogenicity: No applicable toxicity data.

Reproductive Toxicity:

Specific Target Organ Toxicity (Single Exposure): Not available.

Specific Target Organ Toxicity (Repeated Exposure):

Aspiration Hazard: Not available.

Symptoms/Injuries After Inhalation: Adverse symptoms may include the following:

Reduced fetal weight increase in fetal deaths skeletal malformations.

Symptoms/Injuries After Skin Contact: Adverse symptoms may include the following:

Reduced fetal weight increase in fetal deaths skeletal malformations.

Symptoms/Injuries After Eye Contact: No specific data.

Symptoms/Injuries After Ingestion: Adverse symptoms may include the following:

Reduced fetal weight increase in fetal deaths skeletal malformations.

Chronic Symptoms:

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Product/ingredient name

Result

Species

Exposure

Lead

Cadmium (Non-pyrophoric)

[1 R-(1 a,4a(3,1 Oaa)]-1,2,3,4,4a,

9,10,10a-octahydro-7-isopropyl-1,4a-dimethylphenanthren-1 -carboxylic acid

Proprietary Rosin/Resin

Acute EC50 105 ppb Marine water

Acute EC50 0.489 mg/l Marine water Acute EC50 8000 pg/l Fresh water Acute LC50  
530  
pg/l Fresh water

Acute LC50 5100 pg/l Fresh water Acute LC50 0.44 ppm Fresh water

Chronic NOEC 0.25 mg/l Marine water Chronic NOEC 0.03 pg/l Fresh water

Acute EC50 97 pg/l Fresh water

Acute EC50 0.095 mg/l Marine water Acute EC50 200 pg/l Fresh water

Acute EC50 24.4 pg/l Fresh water

Acute LC50 0.072 pg/l Marine water Acute LC50 2 pg/l Fresh water

Chronic NOEC 2 pg/l Fresh water

Chronic NOEC 0.02 pg/l Fresh water

Acute LC50 2470 pg/l Fresh water

Acute LC50 700 pg/l Fresh water

LC50 60.3 mg/l

Algae - *Chaetoceros* sp. -Exponential growth phase

Algae - *Ulva pertusa*

Aquatic plants - *Lemna minor*

Crustaceans - *Ceriodaphnia*

*reticulata* \_

Daphnia - *Daphnia pulex*

Fish - *Cyprinus carpio* - Juvenile (Fledgling, Hatchling, Weanling)

Algae - *Ulva pertusa*

Fish - *Cyprinus carpio*

Algae - *Pseudokirchneriella subcapitata* - Exponential growth phase

Algae - *Ulva pertusa*

Aquatic plants - *Lemna minor*

Daphnia - *Daphnia magna* -

Neonate

Crustaceans - *Amphipoda* - Adult

Fish - *Cyprinus carpio*

Algae - *Parachlorella kessleri* -

Exponential growth phase

Fish - *Cyprinus carpio*

Daphnia - *Daphnia magna* -

Neonate

Fish - *Esox lucius*

Fish

72 hours

96 hours

4 days

48 hours

48 hours

96 hours

96 hours

4 weeks

72 hours

96 hours

4 days

48 hours

48 hours

96 hours

72 hours

4 weeks

48 hours

96 hours

96 hours

#### 12.2. Persistence and Degradability

Not available.

#### 12.3. Bioaccumulative Potential

Product/ingredient name

LogPow

BCF

Potential

[1R-(1?,4a?,10a?)]-1,2,3,4,4a,

9,10,10a-octahydro-7-

isopropyl-1,4adimethylphenanthren-

1- carboxylic acid

4.8

131.83

low

Proprietary Rosin/Resin

3.42

-

low

12.4. Mobility in Soil

Soil/water partition coefficient (KOC): Not available.

#### 12.5. Other Adverse Effects

No known significant effects or critical hazards.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Waste Disposal Recommendations: The generation of waste should be avoided or

minimized wherever possible. Disposal

of this product, solutions and any by-products should at all times comply with  
the

requirements of environmental protection and waste disposal legislation and any

regional local authority requirements. Dispose of surplus and non-recyclable

products via a licensed waste disposal contractor. Waste should not be disposed  
of

untreated to the sewer unless fully compliant with the requirements of all

authorities with jurisdiction. Waste packaging should be recycled. Incineration  
or

landfill should only be considered when recycling is not feasible. This material

and its container must be disposed of in a safe way. Care should be taken when

handling emptied containers that have not been cleaned or rinsed out. Empty

containers or liners may retain some product residues. Avoid dispersal of  
spilled

material and runoff and contact with soil, waterways, drains and sewers.

Additional Information:

## SECTION 14: TRANSPORT INFORMATION

## 14.1 In Accordance with DOT

Proper Shipping Name |Not regulated

Hazard Class | | &lt;PICTOGRAM PHRASE&gt;

Identification Number | |

Label Codes | |

ERG Number |

## 14.2 In Accordance with IMDG

Proper Shipping Name |Not regulated

Hazard Class |

Identification Number |

Label Codes | | &lt;PICTOGRAM PHRASE&gt;

ntification Of The | |

Substance/m | |

EmS-No. (Fire) | |

EmS-No. (Spillage) | |

## 14.3 In Accordance with IATA

Proper Shipping Name |Not regulated

Identification Number		<PICTOGRAM PHRASE>
Hazard Class		
Label Codes		
ntification Of The		
Substance/m		
ERG Code (IATA)		

#### SECTION 15: REGULATORY INFORMATION

##### 15.1 US Federal Regulations <COMPONENT>

SARA 302/304:

Composition/information on ingredients: No products were found.

SARA 313:

Product name

CAS number

%

## Form R - Reporting

## requirements

Lead

Cadmium (Non-pyrophoric)

7439-92-1

7440-43-9

30-40

10-20

## Supplier notification

Lead

Cadmium (Non-pyrophoric)

7439-92-1

7440-43-9

30-40

10-20

SARA 313 notifications must not be detached from the SDS and any copying and

redistribution of the SDS shall include

copying and redistribution of the notice attached to copies of the SDS  
subsequently redistributed.

SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard

| Delayed (chronic) health hazard

Toxic Substances Control Act (TSCA) | TSCA 5(a)2 proposed significant new use  
rule

| (SNUR): No products were found.

| TSCA 5(a)2 final significant new use rule

| (SNUR): No products were found.

| TSCA 12(b) one-time export notification: No

| products were found.

| TSCA 12(b) annual export notification: lead

| All components are listed or exempted.

## 15.2 US State Regulations

<COMPONENT>

California Prop. 65: WARNING: This product contains a chemical known to the  
State  
of California to cause cancer and birth defects or other reproductive harm.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date | June 15 2015

Other | This document has been prepared in accordance with the SDS

Information | requirements of the OSHA Hazard Communication Standard 29 CFR  
| 1910.1200.

GHS Full Text Phrases:

----|Classification |Justification

-- | |

----|Acute Tox. 4, H302 |Calculation method

-- | |

----|Carc. 1A, H350 |Calculation method

-- | |

----|Repr. 1A, H360 (Fertility) |Calculation method

-- | |

----|Repr. 1A, H360 (Unborn child) |Calculation method

-- | |

|STOT RE 1, H372 |Calculation method

|Aquatic Acute 1, H400 |Calculation method

|Aquatic Chronic 1, H410 |Calculation method

Grainger disclaimer.

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