

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Mission Bay CSF
 Product form : liquid
 Other means of identification : 4500 series

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Antifouling

1.3. Details of the supplier of the safety data sheet

New Nautical Coatings, Inc.
 Sea Hawk Premium Yacht Finishes
 14805 49th Street North
 Clearwater, FL 33762
 USA Only: 1-800-528-0997
 International: (727) 523-8053

1.4. Emergency telephone numbers

Emergency number : CHEMTREC day or night inside USA & Canada
 1-800-424-9300
 : CHEMTREC day or night outside USA & Canada
 +1-703-741-5970
 : Poison Control Center
 1-800-222-1222

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4	H302
Asp. Tox. 1	H304
Eye Dam. 1	H318
Aquatic Chronic 1	H410
Aquatic Acute 1	H400
Skin Sens. 1	H317
Carc. 1A	H350
Muta. 1B	H340

Contains 10.94% ingredients of unknown oral toxicity.

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H302 - Harmful if swallowed
 H304- May be fatal if swallowed and enters airways
 H317- May cause an allergic skin reaction
 H318- Causes serious eye damage
 H340- May cause genetic defects
 H350- May cause cancer
 H400- Very toxic to aquatic life
 H410- Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P201 – Obtain special instructions before use.

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P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P233 - Keep container tightly closed
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharge.
P264 - Wash face, hands and forearms thoroughly after handling
P270 - Do not eat, drink, or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment
P280 - Wear eye protection, protective clothing, protective gloves, face protection
P301P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P302+P352 - IF ON SKIN: wash with plenty of soap and water
P303+P353+P361+P364- IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water.
P305+P351+P338- IF IN EYE: Rinse continuously with water for several minutes. Remove contact lens if present and easy to do- continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a POISON CENTER or doctor if in eyes.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P321 - Specific treatment (see first aid instructions on this label)
P330 - Rinse mouth.
P331 - Do NOT induce vomiting
P332+P313 - If eye irritation persists: Get medical advice/attention
P333+P313- If skin irritation or a rash occurs: Get medical advice/attention
P362+P364- Take off contaminated clothing and wash before use
P370+P378 - In case of fire: Use carbon dioxide, dry powder, alcohol-resistant foam or water spray to extinguish.
P391 - Collect spillage
P405 - Store locked up
P501 - Dispose of contents/container to licensed waste handling facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Substance type: Multi-constituent

Name	Product identifier	%
Zinc oxide	(CAS No) 1314-13-2	35-50
Zinc pyrithione	(CAS No) 13463-41-7	4-10
Amorphous Silica	(CAS No) 7631-86-9	0.1-1

Full text of H-phases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
First-aid measures after skin contact : IF ON SKIN: Immediately rinse with plenty of water (for at least 15 minutes). Get immediate medical advice/attention.

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- First-aid measures after eye contact : IF IN EYES: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Get medical advice/attention.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : May be fatal if swallowed and enters airways. .
- Symptoms/injuries after skin contact : May cause an allergic skin reaction.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : Harmful if swallowed.
- Chronic symptoms : May cause genetic defects. May cause cancer.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Alcohol-resistant foam. Water spray.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Product is not flammable
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit (see item 8).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

- Protective equipment : Wear protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Wear approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Exclude sources of ignition and ventilate the area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Waste from this product may be hazardous as defined under RCRA (40 CFR 261).

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mists. Keep away from sources of ignition - No smoking. Use appropriate personal protection equipment (PPE).

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.
- Storage temperature : < 38 °C (100°F)

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Arsenic (7440-38-2)	
ACGIH TWA (mg/m ³)	0.01 mg/m ³
Remark (ACGIH)	Lung cancer
OSHA PEL (TWA) (mg/m ³)	0.5 mg/m ³
Zinc oxide (1314-13-2)	
ACGIH TWA (mg/m ³)	2 mg/m ³ (respirable fraction)
ACGIH STEL (mg/m ³)	10 mg/m ³ (respirable fraction)
Remark (ACGIH)	Metal fume fever
OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (respirable fraction)
OSHA PEL (STEL) (mg/m ³)	10 mg/m ³ (fume)
Zinc pyrithione (13463-41-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation, especially in confined areas. Handle with good industrial hygiene and safety.

Personal protective equipment

: Face shield. Respiratory protection of the dependent type. Gloves. Protective goggles. Protective clothing.



Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Natural rubber ("latex"), Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection

: Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection

: Wear long sleeves. Handle with gloves

Respiratory protection

: An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid.
Color	: White, Light Blue, Dark Blue, Green, Red and Black
Odor	: Aromatic odour.
Odor Threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: Not Measured
Relative evaporation rate (ether=1)	: Not Measured
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not Measured
Flash point	: 93°C (200°F)-closed cup
Self ignition temperature	: Na data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not Measured

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Relative vapor density at 20 °C	: Heavier than air
Relative density	: 1.50 g/ml at 25°C (77°F)
Solubility	: Water: yes
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Upon combustion:CO and CO2 are formed.Reacts violently with (strong) oxidizers:(increased)risk of fire/explosion.react with (some) acids.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Sparks. Heat. Open flame. Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Avoid contact with : Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity: Harmful if swallowed.

Ammonium Hydroxide (1336-21-6)	
LD50 oral rat	350 mg/kg
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg
Zinc pyrithione (13463-41-7)	
LC50 inhalation rat (mg/l)	140 mg/m ³ 4 h

Carcinogenicity data:

Skin corrosion/irritation	: Not Applicable,Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction
Germ cell mutagenicity	: May cause genetic defects, category 1B.
Carcinogenicity	: May cause cancer, category 1A.
Acute Toxicity(Mouth)	Harmful if swallowed
Acute Toxicity(skin)	Not Applicable,Not classified
Reproductive toxicity	: Not Applicable, Not classified
Specific target organ toxicity (single exposure)	: Not Applicable, Not classified
Specific target organ toxicity (repeated exposure)	: Not Applicable, Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways category 1
Symptoms/injuries after inhalation	: May be fatal if swallowed and enters airways.

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Symptoms/injuries after skin contact	: May cause an allergic skin reaction
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Harmful if swallowed.
Chronic symptoms	: May cause cancer.

SECTION 12: Ecological information

12.1. Toxicity

Zinc oxide (1314-13-2)	
LC50 fishes l	1.10 mg/l (96 h; Oncorhynchus mykiss)
EC50 daphnia l	0.098 mg/l (48 h; Daphnia magna)
Threshold limit algae l	0.042 mg/l (72 h; Pseudokirchneriella subcapitata)

Zinc pyrethione (13463-41-7)	
LC50 fishes l	0.0026 mg/l (96 h; Pimephales promelas)
EC50 daphnia l	0.0082 mg/l (48 h; Daphnia magna)
Threshold limit algae l	0.028 mg/l (96 h; Selenastrum capricornutum)

2.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

PBT/vPvB assessment not available as chemical safety assessment not required/ not conducted
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

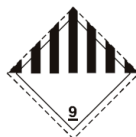
Transport Document description	UN3082 Environmentally hazardous substances, liquid, n.o.s.,9,III
UN-No.(DOT)	: 3082
DOT NA no.	UN3082

14.2. UN proper shipping name

DOT Proper Shipping Name : Environmentally hazardous substances, liquid, n.o.s.,

Department of Transportation (DOT) Hazard Classes : 9 - Class 9- Miscellaneous Hazardous material 49 CFR 173.140

Hazard labels (DOT) : 9 – Class 9 (Miscellaneous dangerous materials)



Packing group (DOT) : III-Minor Danger

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : No Limit

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No Limit

DOT vessel Stowage Location : A – the material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel

Additional Information

Other Information : No supplementary information available

Transport by sea

Marine Pollutant Yes

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed on the United States TSCA (Toxic Substances Control Act) inventory.

Zinc oxide (1314-13-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Ammonium hydroxide (136-21-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) : 1000 lb

15.2. International regulations

CANADA

No additional information available

15.3. US State regulations

California Proposition 65

This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Zinc oxide (1314-13-2)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Ammonium Hydroxide (1336-21-6)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

SECTION 16: Other information

Indication of changes : Revision 3.0 – 12/19/2016 - Updated.

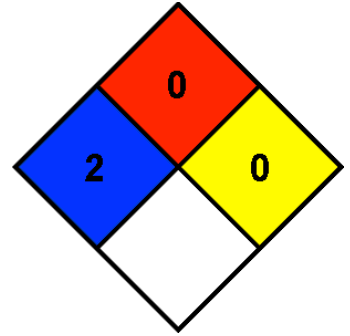
Other information : Mario Garneau, edited by MP

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NFPA health hazard	: 2-intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given
NFPA fire hazard	: 0-materials that will not burn
NFPA reactivity	: 0-Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health	: 2
Flammability	: 0
Physical hazard	: 0
Personal Protection	: H

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using this material in combination with any other material or any other process is the responsibility of the user. All materials present unknown health hazards and should be used with caution. Although certain hazards are described herein, the manufacturer and its agents cannot guarantee that these are the only hazards which exist. Further, the manufacturer and its agents assume no responsibility for personal injury or property damage to vendors, users, or third-parties caused by this material. User assumes all risks associated with the use of this material. No warranty, express or implied, is made and New Nautical Coatings, Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.