Mission Bay CSF

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/27/2014 Revision date: 06/27/2014 Version: 1.0

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 number

Emergency number : 813-523-8053

Emergency number : CHEMTREC 1-800-424-9300

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) :

GHS06 GHS09 GHS08 GHS05

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.

P202 - Do not handle until all safety percautions 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 envirment
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 lense 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 persist: Get medical advice/attentionP333+P313- If skin irritation or a rash occurs:Get medical advice/attentionP362+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

Sdstance 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
Arsenic	(CAS No) 7440-38-2	0.1-1
Nickel	(CAS No) 7440-02-0	0.1-1
Ammonium Hydroxide	(CAS No) 1336-21-6	<0.1
Lead	(CAS No) 7439-92-1	0.1-1
2-Pyridol, 1-Oxide	(CAS No) 13161-30-3	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.

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)

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/m³)	0.01 mg/m³
Remark (ACGIH)	Lung cancer

Arsenic (7440-38-2)	
OSHA PEL (TWA) (mg/m³)	0.5 mg/m³
Zinc oxide (1314-13-2)	
ACGIH TWA (mg/m³)	2 mg/m³ (respirable fraction)
ACGIH STEL (mg/m³)	10 mg/m³ (respirable fraction)
Remark (ACGIH)	Metal fume fever
OSHA PEL (TWA) (mg/m³)	5 mg/m³ (respirable fraction)
OSHA PEL (STEL) (mg/m³)	10 mg/m³ (fume)
Zinc pyrithione (13463-41-7)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established
2-Hydroxypyridine 1-oxide (13161-30-3)	
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 avilable

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : Not Measured

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.reacts 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 tempearture 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
Arsenic (7440-38-2)	
LD50 oral rat	15 mg/kg
ATE CLP (oral)	100.000 mg/kg bodyweight
ATE CLP (gases)	700.000 ppmv/4h
ATE CLP (vapours)	3.000 mg/l/4h
ATE CLP (dust,mist)	0.500 mg/l/4h
Zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg
Zinc pyrithione (13463-41-7)	
LC50 inhalation rat (mg/l)	140 mg/m³ 4 h

Carcinogenicity data:

Arsenic (7440-38-2)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens

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.
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 1	1.10 mg/l (96 h; Oncorhynchus mykiss)
EC50 daphnia 1	0.098 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	0.042 mg/l (72 h; Pseudokirchneriella subcapitata)

Zinc pyrithione (13463-41-7)	
LC50 fishes 1	0.0026 mg/l (96 h; Pimephales promelas)
EC50 daphnia 1	0.0082 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	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
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	No Limit
DOT vessel Stowagw 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

Arsenic (7440-38-2)	
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) :	1 lb (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
SARA Section 313 - Emission Reporting	0.1 %

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

Lead (7439-92-1)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	Yes	Yes	

Arsenic (7440-38-2)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)

Arsenic (7440-38-2)				
Yes	yes	No	No	
Nickel (7440-02-0)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)

Arsenic (7440-38-2)

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
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

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

Nickel (7440-02-2)

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
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Lead (7439-92-1)

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

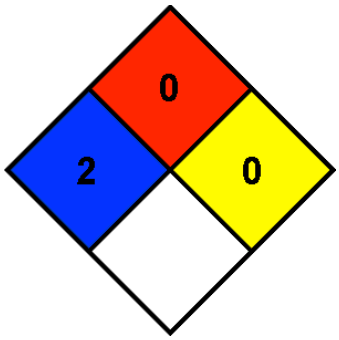
Indication of changes : Revision 1.0 – 06/27/ 2014 - New SDS Created.

Other information : Mario Garneau, edited by MP

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 dtermine suitability of this information for his application.