

Joslin, Richard R - DNR

From: Munoz, Antonio <Antonio.Munoz@us.fincantieri.com>
Sent: Tuesday, October 15, 2019 1:19 PM
To: Joslin, Richard R - DNR
Subject: RE: Marinette Marine AFFF Foam Release SERTS # 20191004NE38-1
Attachments: Ansulite 3% AFFF Concentrate .pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Rick,

Tom Carow is my supervisor, he is the Director of EHS here at Fincantieri Marinette Marine.

Thomas M. Carow

Director, Environmental Safety & Health



1600 Ely Street
Marinette, WI 54143
(o) 715-735-9341 Ext. 6023
(c) 715-587-6041
(f) 715-735-0294

Below is my signature with title and contact info. Attached is the SDS for the AFFF as well. Please let me know if there is anything else you need. Thank you.

Very Respectfully,

Antonio Muñoz

Environmental, Health & Safety Coordinator



1600 Ely Street
Marinette, WI 54143

Office: (715) 735-9341 ext.6478
Fax: (715) 735-0294
Cell: (920) 360-8180

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www.MarinetteMarine.com

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From: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>
Sent: Tuesday, October 15, 2019 12:27 PM
To: Munoz, Antonio <Antonio.Munoz@us.fincantieri.com>
Subject: RE: Marinette Marine AFFF Foam Release SERTS # 20191004NE38-1

Antonio

Can I have all of your information. All phone numbers to contact you, position title, address of company, etc.

Do you have a SDS sheet for the foam too that you can send me?

I sent your report out internally to get some input on reporting. Like I said this PFAS stuff is becoming a big deal so I want to have a good handle on these situations and steer you guys in the right direction in case this happens again.

Rick

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700, Oshkosh, WI 54901-9731
Phone: (920) 424-7077
Cell Phone: (920) 360-4291
Richard.Joslin@Wisconsin.gov



From: Munoz, Antonio <Antonio.Munoz@us.fincantieri.com>
Sent: Tuesday, October 15, 2019 11:23 AM
To: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>
Subject: RE: Marinette Marine AFFF Foam Release SERTS # 20191004NE38-1

From: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>
Sent: Monday, October 14, 2019 3:13 PM
To: Munoz, Antonio <Antonio.Munoz@us.fincantieri.com>
Subject: Marinette Marine AFFF Foam Release SERTS # 20191004NE38-1

Antonio

Thanks for your time this afternoon to discuss this incident. Please use this link (<https://dnr.wi.gov/topic/contaminants/PFAS.html>) for additional information with regard to PFAS contaminants.

Per our conversation, please note that a documentation report will be needed for the spill referenced above. The report should be submitted to me within 45 days of the incident. The report should include information (i.e., what happened,

where it happened, how it was fixed, what remedial activities were performed, photo documentation, etc.) to document spill response activities that occurred.

Please make sure that the report includes **global positioning system (GPS) coordinates** or a **map** that presents an accurate location of the spill. If you need more information related to the spill cleanup documentation report, please do not hesitate to contact me.

The report should be sent to:

Email: richard.joslin@wisconsin.gov (No hard copy of the report is required)

Thank you for your cooperation with this matter!

Rick

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau

Wisconsin Department of Natural Resources

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Phone: (920) 424-7077

Cell Phone: (920) 360-4291

Richard.Joslin@Wisconsin.gov



dnr.wi.gov



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Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ANSULITE 3% (AFC-3A) AFFF Concentrate

1. Identification

1.1. Product Identifier

Product name ANSULITE 3% (AFC-3A) AFFF Concentrate

1.2. Other means of identification

Product code 055809
Synonyms None
Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent.
Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products
One Stanton Street
Marinette, WI 54143-2542
Telephone: 715-735-7411
Contact point Product Stewardship at 1-715-735-7411
E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

2. Hazards Identification

Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

2.2. Label Elements

Hazard Statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

Precautionary Statements

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. Other Information

3. Composition/information on Ingredients



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3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
2-(2-Butoxyethoxy)ethanol	112-34-5	5 - 10
Lauryl Imino Propionate, Sodium Salt	14960-06-6	1 - 5

4. First aid measures

4.1. Description of first aid measures

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

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

5.2. Unsuitable Extinguishing Media

None.

5.3. Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion Products Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for Safe Handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	-	-

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate Engineering Controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be



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required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Ventilation

Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Color	Light yellow
Odor	Characteristic		
Odor Threshold	No data available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.5	
Melting point/freezing point	No data available	
Boiling point / boiling range	> 100 °C / 212 °F	
Flash Point	°C / °F	No flash up to boiling point.
Evaporation Rate	No data available	
Flammability (solid, gas)	No data available	
Flammability limit in air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Specific gravity	No data available	
Water Solubility	No data available	
Solubility in Other Solvents	No data available	
Partition coefficient	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Kinematic viscosity	2.9 mm ² /s	
VOC content (%)	9.21317	
Density	1.03	

10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.



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10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information	No data available
Inhalation	No data available.
Eye Contact	No data available.
Skin contact	No data available.
Ingestion	No data available.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol 112-34-5	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-

11.2. Information on Toxicological Effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	No information available.
Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	28637 mg/kg
ATEmix (dermal)	30928 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Not classified.



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Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna
2-Methyl-2,4-pentanediol 107-41-5	-	LC50 (96h) static = 10700 mg/L Pimephales promelas LC50 (96h) static = 10000 mg/L Lepomis macrochirus LC50 (96h) flow-through = 8690 mg/L Pimephales promelas LC50 (96h) flow-through 10500 - 11000 mg/L Pimephales promelas	EC50 (48h) 2700 - 3700 mg/L Daphnia magna
t-Butanol 75-65-0	EC50 (72h) > 1000 mg/L Desmodesmus subspicatus	LC50 (96h) flow-through 6130 - 6700 mg/L Pimephales promelas	EC50 (48h) = 933 mg/L Daphnia magna EC50 (48h) Static 4607 - 6577 mg/L Daphnia magna
Sodium chloride 7647-14-5	-	LC50 (96h) flow-through 4747 - 7824 mg/L Oncorhynchus mykiss LC50 (96h) semi-static = 7050 mg/L Pimephales promelas LC50 (96h) static = 12946 mg/L Lepomis macrochirus LC50 (96h) static 6020 - 7070 mg/L Pimephales promelas LC50 (96h) flow-through 5560 - 6080 mg/L Lepomis macrochirus LC50 (96h) static 6420 - 6700 mg/L Pimephales promelas	EC50 (48h) Static 340.7 - 469.2 mg/L Daphnia magna EC50 (48h) = 1000 mg/L Daphnia magna
Polyethylene Glycol 25322-68-3	-	LC50 (24h) > 5000 mg/L Carassius auratus	-
Formaldehyde 50-00-0	-	LC50 (96h) static 100 - 136 mg/L Oncorhynchus mykiss LC50 (96h) flow-through 0.032 - 0.226 mL/L Oncorhynchus mykiss LC50 (96h) flow-through 22.6 - 25.7 mg/L Pimephales promelas LC50 (96h) static 23.2 - 29.7 mg/L Pimephales promelas LC50 (96h) static = 41 mg/L Brachydanio rerio LC50 (96h) static = 1510 µg/L Lepomis macrochirus	LC50 (48h) = 2 mg/L Daphnia magna EC50 (48h) Static 11.3 - 18 mg/L Daphnia magna

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.



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Contaminated Packaging Do not reuse container.

14. Transport Information

<u>DOT</u>	NOT REGULATED
<u>TDG</u>	NOT REGULATED
<u>MEX</u>	NOT REGULATED
<u>ICAO (air)</u>	NOT REGULATED
<u>IATA</u>	NOT REGULATED
<u>IMDG</u>	NOT REGULATED

15. Regulatory Information

15.1. International Inventories

TSCA	Complies
DSL/NDSL	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Complies
PICCS	Does not comply
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)



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CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.3. US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Formaldehyde - 50-00-0	Carcinogen
Perfluorooctanoic acid - 335-67-1	Developmental Toxicity

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol 112-34-5	X	-	X
t-Butanol 75-65-0	X	X	X
Formaldehyde 50-00-0	X	X	X

16. Other information, including date of preparation of the last revision

NFPA	Health Hazards 0	Flammability 0	Instability 0	Physical and chemical properties -
HMIS	Health Hazards 0	Flammability 0	Physical Hazards 0	Personal Protection X

Revision date 11-Jan-2019

Revision note 9, 16.

Disclaimer

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.

End of Safety Data Sheet

Joslin, Richard R - DNR

From: Munoz, Antonio <Antonio.Munoz@us.fincantieri.com>
Sent: Tuesday, October 15, 2019 11:23 AM
To: Joslin, Richard R - DNR
Subject: RE: Marinette Marine AFFF Foam Release SERTS # 20191004NE38-1
Attachments: EDR 009.docx; 45°06'01.0N 87°37'04.3W.pdf

From: Joslin, Richard R - DNR <Richard.Joslin@wisconsin.gov>
Sent: Monday, October 14, 2019 3:13 PM
To: Munoz, Antonio <Antonio.Munoz@us.fincantieri.com>
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Antonio

Thanks for your time this afternoon to discuss this incident. Please use this link (<https://dnr.wi.gov/topic/contaminants/PFAS.html>) for additional information with regard to PFAS contaminants.

Per our conversation, please note that a documentation report will be needed for the spill referenced above. The report should be submitted to me within 45 days of the incident. The report should include information (i.e., what happened, where it happened, how it was fixed, what remedial activities were performed, photo documentation, etc.) to document spill response activities that occurred.

Please make sure that the report includes **global positioning system (GPS) coordinates** or a **map** that presents an accurate location of the spill. If you need more information related to the spill cleanup documentation report, please do not hesitate to contact me.

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Rick

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Richard R. Joslin

Hydrogeologist / NER Spills Coordinator – Remediation & Redevelopment Bureau
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	FMM Environmental Discrepancy Report	Date/Time: 10.4.19
		EDR Number: EDR-009

To:	From: Environmental, Health & Safety Department
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Building/Vessel and Specific Area:
LCS 21 USS Minneapolis Saint Paul, AFFF Skid 2-6-0-L

Discrepancies¹:

October 4, 2019, LCS 21 – USS Minneapolis Saint Paul. It was reported that Aqueous Film Forming Foam (AFFF) was spilled into the river. The ball valve located on the second platform 2-6-0-L passage, AFFF skid, is protruding out into the walkway. This caused personnel transiting through the area to unintentionally kick it, thus opening the ball valve. The drain valve left unintentionally opened released AFFF from the reservoir tank into the AFFF skid containment, where two drains are located leading to the scupper valves. The scupper valve located in the Supply Department Store Room, were left in the open position, causing the AFFF to discharge into the river. The scupper valve should have been closed because the ship is not in the normal operations yet. The reservoir tank was at 88% when personnel were aware of the spill they went back and looked at the percentage and it was at 63%, it's estimated that 15-25 gallons had discharged into the river.

LOTO put in place of the ball valve protruding into the walkway of 2-6-0-L passage. This will prevent the unintentional opening of the ball valve by personnel transiting through the area. Scupper valves located in the Supply Department Store Room will be maintained closed until otherwise due to vessel normal operations.

1. Discrepancies shall be listed by each issue, the associated environmental standard or guideline, and the recommended method to resolve the issue.

Environmental Representative:	Signature:	Date:
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Department Reply²:

2. The Department Reply shall be listed by each issue, include how it was resolved, and the date and time that it was resolved.

Department Representative:	Signature:	Date:
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Picture References:





