

Safety Data Sheet

Issue Date: 08-Aug-2014

Revision Date: 21-Oct-2022

Version 3

1. IDENTIFICATION

Product Identifier

Product Name Flash Wax Blue and Flash Wax Blue *2X*

Other means of identification

SDS # DSI-095

Product Code Flash Wax Blue: 30010021, 30010022, 30010154
Flash Wax Blue *2X*: 30010111

Recommended use of the chemical and restrictions on use

Recommended Use Automotive care.

Details of the supplier of the safety data sheet

Supplier Address
Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Blue liquid

Physical State Liquid

Odor Blueberry

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous according to OSHA 29 CFR 1910.1200. Components not listed are not hazardous or are below reportable limits.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact

Wash affected areas thoroughly with soap and water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary. Get medical attention if necessary.
Ingestion	IF SWALLOWED: call a poison control center or physician immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects

Symptoms	May cause eye, skin and respiratory tract irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

The product is not expected to present any fire or explosion hazards under prescribed use conditions.

Hazardous Combustion Products Not determined.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.
Methods for Clean-Up	Transfer liquid and solid material into suitable containers in accordance with local, state and federal regulations for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Follow all product label instructions. Use only as directed. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls Eyewash stations. Showers. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Goggles are recommended.
Skin and Body Protection	Gloves recommended but not required. Wear suitable protective clothing to prevent contact with skin.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Blueberry
Appearance	Blue liquid	Odor Threshold	Not determined
Color	Blue		
Property	Values	Remarks • Method	
pH	5.5-7.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 100 °C / > 212 °F		
Flash Point	Not applicable		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Liquid-not applicable		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not available		
Vapor Density	Not available		
Specific Gravity	1.015 – 1.035	(1=Water)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

May cause temporary irritation on eye contact.

Skin Contact

Prolonged contact may cause redness and irritation.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Do not taste or swallow.

Component Information

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

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

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods**

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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

US Federal Regulations

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).

SARA 313

Not determined

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)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name

Acetic Acid, 2,2-Dichloro 79-43-6

Carcinogenic

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION

NFPA

Health Hazards

Flammability

Instability

Special Hazards

HMIS

Health Hazards

Flammability

Physical Hazards

Personal Protection

0

0

0

Not determined

Issue Date:

08-Aug-2014

Revision Date:

21-Oct-2022

Revision Note:

Information in Section 1 & 15

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

Safety Data Sheet

Issue Date: 30-Apr-2015

Revision Date: 21-Oct-2022

Version 3

1. IDENTIFICATION

Product Identifier

Product Name Flash Wax Gold *2X*

Other means of identification

Product Code 30010115

Recommended use of the chemical and restrictions on use

Recommended Use Automotive care.

Details of the supplier of the safety data sheet

Supplier Address

Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Yellow liquid

Physical State Liquid

Odor Lemon

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous according to OSHA 29 CFR 1910.1200. Components not listed are not hazardous or are below reportable limits.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact

Wash affected areas thoroughly with soap and water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary. Get medical attention if necessary.
Ingestion	IF SWALLOWED: call a poison control center or physician immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects

Symptoms	May cause eye, skin and respiratory tract irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

The product is not expected to present any fire or explosion hazards under prescribed use conditions.

Hazardous Combustion Products Not determined.

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.
Methods for Clean-Up	Transfer liquid and solid material into suitable containers in accordance with local, state and federal regulations for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Follow all product label instructions. Use only as directed. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls Eyewash stations. Showers. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Goggles are recommended.
Skin and Body Protection	Gloves recommended but not required. Wear suitable protective clothing to prevent contact with skin.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.
General Hygiene Considerations	Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Lemon
Appearance	Yellow liquid	Odor Threshold	Not determined
Color	Yellow		
Property	Values	Remarks • Method	
pH	8.0-9.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 100 °C / > 212 °F		
Flash Point	Not applicable		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Liquid-not applicable		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not available		
Vapor Density	Not available		
Specific Gravity	1.035	(1=Water)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Eye Contact**

May cause temporary irritation on eye contact.

Skin Contact

Prolonged contact may cause redness and irritation.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Do not taste or swallow.

Component Information**Information on physical, chemical and toxicological effects****Symptoms**

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION**International Inventories****TSCA**

Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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

US Federal Regulations**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).

SARA 313

Not determined

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)

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name

Acetic Acid, 2,2-Dichloro 79-43-6

Carcinogenic

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION

NFPA**Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

0

Flammability

0

Physical Hazards

0

Personal Protection

Not determined

Issue Date:

30-Apr-2015

Revision Date:

21-Oct-2022

Revision Note:

Information in Section 1 & 15

End of Safety Data Sheet

Safety Data Sheet

Issue Date: 01-Dec-2022

Revision Date:

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Flash Wax Red

Other means of identification

SDS #

Product Code 30010907

Recommended use of the chemical and restrictions on use

Recommended Use Automotive care.

Details of the supplier of the safety data sheet

Supplier Address

Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Red liquid Physical State Liquid Odor Cherry

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous according to OSHA 29 CFR 1910.1200. Components not listed are not hazardous or are below reportable limits.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Wash affected areas thoroughly with soap and water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary. Get medical attention if necessary.
Ingestion	IF SWALLOWED: call a poison control center or physician immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects

Symptoms	May cause eye, skin and respiratory tract irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

The product is not expected to present any fire or explosion hazards under prescribed use conditions.

Hazardous Combustion Products Not determined.

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.
Methods for Clean-Up	Transfer liquid and solid material into suitable containers in accordance with local, state and federal regulations for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Follow all product label instructions. Use only as directed. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls Eyewash stations. Showers. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Goggles are recommended.
Skin and Body Protection	Gloves recommended but not required. Wear suitable protective clothing to prevent contact with skin.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Cherry
Appearance	Red liquid	Odor Threshold	Not determined
Color	Red		

Property	Values	Remarks • Method
pH	8.0-9.0	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	> 100 °C / > 212 °F	
Flash Point	Not applicable	
Evaporation Rate	Not available	
Flammability (Solid, Gas)	Liquid-not applicable	
Upper Flammability Limits	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	1.022	(1=Water)
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information****Eye Contact**

May cause temporary irritation on eye contact.

Skin Contact

Prolonged contact may cause redness and irritation.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Do not taste or swallow.

Component Information**Information on physical, chemical and toxicological effects****Symptoms**

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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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

US Federal Regulations

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).

SARA 313

Not determined

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)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name

Acetic Acid, 2,2-Dichloro 79-43-6

Carcinogenic

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION

NFPA

Health Hazards

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS

Health Hazards

0

Flammability

0

Physical Hazards

0

Personal Protection

Not determined

Issue Date:

01-Dec-2022

Revision Date:

Revision Note:

New

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

Safety Data Sheet

Issue Date: 04-Feb-2016

Revision Date: 20-Oct-2022

Version 2

1. IDENTIFICATION

Product Identifier

Product Name Flash Wax White *2X*

Other means of identification

SDS #

Product Code 30010117

Recommended use of the chemical and restrictions on use

Recommended Use Automotive care.

Details of the supplier of the safety data sheet

Supplier Address

Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Straw colored liquid Physical State Liquid Odor Blueberry

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Other Hazards

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not hazardous according to OSHA 29 CFR 1910.1200. Components not listed are not hazardous or are below reportable limits.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact Wash affected areas thoroughly with soap and water for at least 15 minutes. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary. Get medical attention if necessary.
Ingestion	IF SWALLOWED: call a poison control center or physician immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects

Symptoms	May cause eye, skin and respiratory tract irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

The product is not expected to present any fire or explosion hazards under prescribed use conditions.

Hazardous Combustion Products Not determined.

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.
Methods for Clean-Up	Transfer liquid and solid material into suitable containers in accordance with local, state and federal regulations for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Follow all product label instructions. Use only as directed. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when handling this product.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines No exposure limits noted for ingredient(s)

Appropriate engineering controls

Engineering Controls Eyewash stations. Showers. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Goggles are recommended.

Skin and Body Protection Gloves recommended but not required. Wear suitable protective clothing to prevent contact with skin.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Odor	Blueberry
Appearance	Straw colored liquid	Odor Threshold	Not determined
Color	Straw		
Property	Values	Remarks • Method	
pH	5.5-7.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 100 °C / > 212 °F		
Flash Point	Not applicable		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Liquid-not applicable		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not available		
Vapor Density	Not available		
Specific Gravity	1.030	(1=Water)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact

May cause temporary irritation on eye contact.

Skin Contact

Prolonged contact may cause redness and irritation.

Inhalation

Avoid breathing vapors or mists.

Ingestion

Do not taste or swallow.

Component Information

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

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

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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

US Federal Regulations**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).

SARA 313

Not determined

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)

US State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name

Acetic Acid, 2,2-Dichloro 79-43-6

Carcinogenic

U.S. State Right-to-Know Regulations

Not determined

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

0

Flammability

0

Physical Hazards

0

Personal Protection

Not determined

Issue Date:

04-Feb-2016

Revision Date:

20-Oct-2022

Revision Note:

Information in Section 1 & 15

End of Safety Data Sheet

Safety Data Sheet

Issue Date: 06-Feb-2017

Revision Date: 21-Oct-2022

Version 3

1. IDENTIFICATION

Product Identifier

Product Name

Fusion Seal Blue, Fusion Seal Red, Fusion Seal White

Other means of identification

SDS

Product Code

Fusion Seal Blue: 30010129
Fusion Seal Red: 30010130
Fusion Seal White: 30010053, 30010132

Recommended use of the chemical and restrictions on use

Recommended Use

Automotive care.

Details of the supplier of the safety data sheet

Supplier Address

Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number

800-843-7627

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance

Fusion Seal Blue-Blue colored liquid
Fusion Seal Red-Red colored liquid
Fusion Seal White-Straw colored liquid

Physical State

Fusion Seal Blue-Liquid
Fusion Seal Red-Liquid
Fusion Seal White-Liquid

Odor

Fusion Seal Blue-None
Fusion Seal Red-None
Fusion Seal White-Lemon

Classification

Acute toxicity - Inhalation (Vapors)

Category 4

Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

Signal Word

Warning

Hazard Statements

Harmful if inhaled



Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum distillates, hydrotreated middle	64742-46-7	< 10
Ethylene Glycol Monobutyl Ether	111-76-2	< 15

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms	Harmful if inhaled.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

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

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal Precautions** Use personal protective equipment as required.
- Environmental Precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

- Methods for Containment** Prevent further leakage or spillage if safe to do so.
- Methods for Clean-Up** Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

- Advice on Safe Handling** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.
- Incompatible Materials** None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

- Engineering Controls** Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Avoid contact with eyes.
Skin and Body Protection	Wear suitable protective clothing.
Respiratory Protection	Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Fusion Seal Blue-None
Appearance	Fusion Seal Blue-Blue liquid Fusion Seal Red-Red liquid Fusion Seal White-White liquid		Fusion Seal Red-None Fusion Seal White-Lemon
Color	Not determined	Odor Threshold	Not determined
Property	Values	Remarks • Method	
pH	7.0-9.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	Not determined		
Flash Point	Not determined		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	0.970-0.990	@25 Deg. C (77 Deg. F) (1=Water)	
Water Solubility	Not determined		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	20-40 cSt	@25 Deg. C (77 Deg. F)	
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Eye Contact	Avoid contact with eyes.
Skin Contact	Causes mild skin irritation.
Inhalation	Harmful if inhaled.
Ingestion	Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated middle 64742-46-7	= 7400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl Ether 111-76-2	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated middle 64742-46-7		35: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Pimephales promelas mg/L LC50 static		
Ethylene Glycol Monobutyl Ether 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status**14. TRANSPORT INFORMATION**

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Petroleum distillates, hydrotreated middle	Present	X		Present		Present	X	Present	X	X
Ethylene Glycol Monobutyl Ether	Present	X		Present		Present	X	Present	X	X

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
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

US Federal Regulations**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).

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	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether - 111-76-2	111-76-2	<15	1.0

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol Monobutyl Ether 111-76-2	X	X	X

16. OTHER INFORMATION

NFPA

Health Hazards

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS

Health Hazards

Not determined

Flammability

Not determined

Physical Hazards

Not determined

Personal Protection

Not determined

Issue Date:

06-Feb-2017

Revision Date:

21-Oct-2022

Revision Note:

Information in Section 1

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

Safety Data Sheet

Issue Date: 29-Aug-2019

Revision Date: 18-Oct-2022

Version 2

1. IDENTIFICATION

Product identifier

Product Name Ceramic X3 Drying Agent (Step 3)
Product Code 30010107, 30010028

Other means of identification

SDS #

Recommended use of the chemical and restrictions on use

Recommended Use For industrial use.

Details of the supplier of the safety data sheet

Supplier Address
Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency telephone number

Company Phone Number 800-843-7627
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear straw-colored liquid **Physical state** Liquid **Odor** No appreciable odor

Classification

Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 1

Signal Word

Danger

Hazard statements

Causes serious eye damage
Causes damage to organs



Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a poison center or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Glycol Ether EB	111-76-2	<10
Petroleum distillates, hydrotreated middle	64742-46-7	<5

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures**Eye Contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms develop and persist.

Ingestion

Seek medical attention immediately. Wash out mouth with water. If conscious give 2 glasses of water to dilute. Stop if the person feels sick as vomiting may be dangerous. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor breathing. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed**Symptoms**

Causes mild skin irritation. Causes serious eye damage. Inhalation symptoms may include dizziness, headache, and nausea. Ingestion symptoms: causes damage to organs, optic nerve, and central nervous system. Irritating to mouth, throat, and stomach.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Not determined.

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x). Hydrogen chloride. Silicon oxides.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for disposal. Dispose of in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wear protective gloves/protective clothing and eye/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.

Incompatible Materials Oxidizing agents. Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycol Ether EB 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear eye/face protection. Splash goggles or safety glasses. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Clear straw-colored liquid		
Color	Straw	Odor	No appreciable odor
		Odor Threshold	Not determined
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	7.0-9.0		
Melting point / freezing point	Not determined		
Boiling point / boiling range	> 100 °C / 212 °F		
Flash point	Not determined		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Liquid-Not applicable		
Flammability Limit in Air			
Upper flammability or explosive limits	Not determined		
Lower flammability or explosive limits	Not determined		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Relative Density	0.960-0.980	(Water=1)	
Water Solubility	Not determined		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition temperature	Not determined		
Decomposition temperature	Not determined		
Kinematic viscosity	10-30 cst		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible materials

Oxidizing agents. Reducing agents.

Hazardous decomposition productsCarbon dioxide (CO₂). Nitrogen oxides (NO_x). Hydrogen chloride. Silicon oxides. Under normal conditions of storage and use, hazardous decomposition products should not be produced.**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

Eye Contact	Avoid contact with eyes. Causes serious eye damage.
Skin Contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycol Ether EB 111-76-2	= 470 mg/kg (Rat)	= 435 mg/kg (Rabbit)	= 486 ppm (Rat) 4 h = 450 ppm (Rat) 4 h
Petroleum distillates, hydrotreated middle 64742-46-7	= 7400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
Proprietary ingredient 2	= 620 mg/kg (Rat) = 500 mg/kg (Rat)	> 10 g/kg (Rat)	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Please see section 4 of this SDS for symptoms.

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

Skin corrosion/irritation May cause skin irritation.

Carcinogenicity Group 3 IARC components are "not classifiable as human carcinogens".

Chemical name	ACGIH	IARC	NTP	OSHA
Glycol Ether EB 111-76-2	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure Causes damage to organs. optic nerve. Central nervous system (CNS).

Numerical measures of toxicity

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

Oral LD50	8,227.90 mg/kg
Dermal LD50	9,496.00 mg/kg
ATEmix (inhalation-dust/mist)	14.30 mg/L
ATEmix (inhalation-vapor)	22.45 mg/L

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Glycol Ether EB 111-76-2		2950: 96 h Lepomis macrochirus mg/L LC50 1490: 96 h Lepomis macrochirus mg/L LC50 static	1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50
Petroleum distillates, hydrotreated middle 64742-46-7		10000: 96 h Pimephales promelas mg/L LC50 static 35: 96 h Pimephales promelas mg/L LC50 flow-through	

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Glycol Ether EB 111-76-2	0.81

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS**Waste Treatment Methods****Disposal of Wastes**

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION

Note	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
Glycol Ether EB	X	ACTIVE	X	X	X	X	X	X	X
Proprietary Silicone Emulsion	X	ACTIVE	X	X	X	X	X	X	X
Proprietary ingredient 1	X	ACTIVE	X	X		X			X
Petroleum distillates, hydrotreated middle	X	ACTIVE	X	X		X	X	X	X
Proprietary ingredient 2	X	ACTIVE	X	X		X	X	X	X
Polyoxyethylene 2-ethyl hexyl ether	X	ACTIVE	X			X		X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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

US Federal Regulations

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).

SARA 313

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Glycol Ether EB - 111-76-2	111-76-2	<10	1.0

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)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycol Ether EB 111-76-2	X	X	X
Proprietary Silicone Emulsion			X

16. OTHER INFORMATION**NFPA****Health Hazards**

Not determined

Flammability

Not determined

Instability

Not determined

Special Hazards

Not determined

HMIS**Health Hazards**

Not determined

Flammability

Not determined

Physical hazards

Not determined

Personal Protection

Not determined

Issue Date:

29-Aug-2019

Revision Date:

18-Oct-2022

Revision Note:

Information in Section 1

Disclaimer

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End of Safety Data Sheet

Safety Data Sheet

Issue Date: 11-Apr-2022

Revision Date: 21-Oct-2022

Version 2

1. IDENTIFICATION

Product Identifier

Product Name Graphene Xtreme

Other means of identification

SDS #

Product Code 30010868, 30010869, 30010870

Recommended use of the chemical and restrictions on use

Recommended Use Automotive care.

Details of the supplier of the safety data sheet

Supplier Address

Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Black liquid

Physical State Liquid

Odor No Appreciable Odor

Classification

Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

Unknown Acute Toxicity 1% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethylene Glycol Monobutyl Ether	111-76-2	1-10

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Wash skin thoroughly with mild soap and water. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration.
Ingestion	Seek medical attention immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects

Symptoms	Inhalation symptoms may include dizziness and headache. Nausea. May cause skin and eye irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Contain and collect with an inert absorbent and place into an appropriate container for disposal. Dispose of in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use in accordance with product label instructions.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store at high temperatures. Store away from incompatible materials.

Incompatible Materials Oxidizing agents. Reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Splash goggles or safety glasses.

Skin and Body Protection Wear protective gloves. Wear protective clothing to minimize skin contact.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid		
Appearance	Black liquid		
Color	Black	Odor	No Appreciable Odor
		Odor Threshold	Not determined
Property	Values	Remarks • Method	
pH	7.50 – 9.50		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 100 °C / >212 °F		
Flash Point	Not available		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	n/a-liquid		
Upper Flammability Limits	Not available		
Lower Flammability Limit	Not available		
Vapor Pressure	Not available		
Vapor Density	Not available		
Specific Gravity	0.960 – 0.980	(1=Water)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	20 – 40 cst		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Oxidizing agents. Reducing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Eye Contact	Avoid contact with eyes.
Skin Contact	Causes mild skin irritation.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Carcinogenicity Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl Ether 111-76-2	A3	Group 3		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity

1% of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol Monobutyl Ether 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether 111-76-2	0.81

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

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

Contaminated Packaging

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

14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether - 111-76-2	111-76-2	1-10	1.0

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol Monobutyl Ether 111-76-2	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 1	Flammability 0	Instability 0	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection Not determined

Issue Date: 11-Apr-2022
Revision Date: 21-Oct-2022
Revision Note: Information in Section 1

Disclaimer

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End of Safety Data Sheet

Safety Data Sheet

Issue Date: 04-Sept-2019

Revision Date: 27-Oct-2022

Version 4

1. IDENTIFICATION

Product Identifier

Product Name INFUSIONS WATERMELON

Other means of identification

Product Code 30010038, 30010007

Recommended use of the chemical and restrictions on use

Recommended Use Fragrance for automotive care products.

Details of the supplier of the safety data sheet

Supplier Address

Sonny's Car Wash Chemistry
9050 Tyler Blvd.
Mentor, OH 44060

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Dark Amber liquid

Physical State Liquid

Odor Watermelon

Classification

Skin sensitization

Category 1

Signal Word

Warning

Hazard Statements

May cause an allergic skin reaction



Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water
 If skin irritation or rash occurs: Get medical advice/attention
 Wash contaminated clothing before reuse

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine	4719-04-4	<1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES**First Aid Measures**

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen may be necessary. Call a physician or poison control center immediately.
Ingestion	IF SWALLOWED: call a poison control center or physician immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Most important symptoms and effects

Symptoms	Headache. Dizziness. Nausea. Direct contact may cause skin or eye irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

The product is not expected to present any fire or explosion hazards under prescribed use conditions.

Hazardous Combustion Products None known.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.
Environmental Precautions	Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Contain spilled material if possible. Absorb with materials such as: Dirt. Sand. Sawdust.
Methods for Clean-Up	Transfer liquid and solid material into suitable containers in accordance with local, state and federal regulations for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Follow all product label instructions. Use only as directed. Contaminated work clothing should not be allowed out of the workplace.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Store away from heat and incompatible materials.
Incompatible Materials	None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies
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Appropriate engineering controls

Engineering Controls	Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Chemical anti-splash safety goggles.
Skin and Body Protection	Protective gloves. Wear suitable protective clothing to prevent contact with skin.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Watermelon
Appearance	Dark amber liquid	Odor Threshold	Not determined
Color	Dark amber		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	8.0-10.0		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	> 100 °C / > 212 °F		
Flash Point	Not applicable		
Evaporation Rate	Not available		
Flammability (Solid, Gas)	Liquid-not applicable		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not available		
Vapor Density	Not available		
Specific Gravity	1.014	@ 25 °C (77 °F) (1=Water)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not an explosive		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	May cause an allergic skin reaction.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine 4719-04-4	= 763 mg/kg (Rat)	> 2 g/kg (Rat)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

Sensitization May cause an allergic skin reaction.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine 4719-04-4			EC50 = 28.9 mg/L 15 min	

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

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

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

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- 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*

US Federal Regulations

SARA 313

Not determined

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethylene Oxide (< 1ppm) 75-21-8	Cancer – Birth Defects Reproductive Harm Carcinogenic
1,4-Dioxane (< 10ppm) 123-91-1	
Diethanolamine 111-42-2	

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 0	Flammability 0	Physical Hazards 0	Personal Protection Not determined

Issue Date: 04-Sept-2019
 Revision Date: 27-Oct-2022
 Revision Note: Information in Section 1 & 15

Disclaimer

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End of Safety Data Sheet



ECS Florida, LLC

Results for Preliminary Threatened & Endangered Species Assessment and Preliminary Wetlands Determination

Fletcher Center East
SW 140th Terrace & W Newberry Road, Newberry, Florida 32669

For: CHW Professional Consultants

11801 Research Drive, , Alachua, Florida 32615

ECS Project Number 55:4771

April, 21, 2022





April, 21, 2022

Ms. Jessica Junkin
Project Coordinator
CHW Professional Consultants
11801 Research Drive

Alachua, Florida 32615

ECS Project No. 55:4771

Reference: Results for Preliminary Threatened & Endangered Species Assessment and Preliminary Wetlands Determination, Fletcher Center East, SW 140th Terrace & W Newberry Road, Newberry, Alachua County, Florida

Dear Ms. Junkin:

ECS Florida, LLC (ECS) is pleased to provide you with results of our Preliminary Threatened & Endangered Species Assessment and Preliminary Wetlands Determination for the Fletcher Center East. ECS services were provided in general accordance with ECS Proposal No. 55:6934 authorized on March 23, 2022.

If there are questions regarding this report, or a need for further information, please contact the undersigned.

ECS Florida, LLC

Joe Brinson
Senior Project Manager
JLBrinson@ecslimited.com
904-880-0960

Cliff Hendrickson, P.G.
Principal Geologist
CHendrickson@ecslimited.com
407-859-8378

INTRODUCTION

ECS scientists completed a Preliminary Threatened & Endangered Species Assessment and Preliminary Wetlands Determination for the Fletcher Center East, located at SW 140th Terrace & W Newberry Road in Newberry, Alachua County, Florida. An aerial view of the subject property is provided in **Appendix I**. The field portion of the survey was conducted on 4/13/2022.

The purpose of the field visit was to evaluate the site for the occurrence and/or potential for occurrence of jurisdictional wetlands and/or protected wildlife species (and their habitats).

The following report (and referenced exhibits) describes relevant ecological conditions observed on the site during the field investigation and the results of documented literature regarding the presence of protected wildlife species and/or habitat on the site and its relevant surroundings.

SITE LOCATION AND DESCRIPTION

The site is located in the physiographic area known as the Ocala Uplift District. The site is an approximately 12.41-acre property located at SW 140th Terrace & W Newberry Road in Newberry, Alachua County, Florida and is identified by the Alachua County Property Appraiser as parcel identification number 04344-003-000, 04344-009-000, & 04345-011-000 and owned by FCE HOLDING LLC, FLETCHER'S CENTER WEST LLC, and FLETCHER G W BLAKE TRUSTEE (**Figure 1**).

The site is classified by Alachua County as undeveloped land. At the time of this survey, the site was observed to be occupied by a undeveloped wooded land. (**Figure 2**).

The upland canopy vegetation is dominated by live oak (*Quercus virginiana*) and eastern red cedar (*Juniperus virginiana*). The upland subcanopy and herbaceous layer is dominated by American beautyberry (*Callicarpa americana*), eastern redbud (*Cercis canadensis*), Southern magnolia (*Magnolia grandiflora*), bitter gallberry (*Ilex glabra*), stagger bush (*Lyonia ferruginea*), and highbush blueberry (*Vaccinium corymbosum*).

Site photographs taken at the time of this survey are included in **Appendix II**.

Soils

Three (3) general soil types were identified by the USDA Natural Resource Conservation Service's (NRCS) *Soil Survey of Alachua County, Florida*. The following soil units and descriptions were mapped by the soil survey on the site:

- Unit 3 - Arredondo fine sand, consist of well drained soils that formed from sandy marine deposits and/or loamy marine deposits. These soils are in ridges and hills on marine terraces. Slopes range from 0 to 5 percent. Arredondo sand is classified as non-hydric. These soils cover approximately 66.3% of the site by area.
- Unit 30 - Kendrick sand consists of well drained soils that formed from loamy marine deposits. These soils are in ridges on marine terraces. Slopes range from 2 to 5 percent. Kendrick sand is classified as non-hydric. These soils cover approximately 13% of the site by area.

- Unit 33 - Norfolk loamy fine sand consists of well drained soils that formed from loamy marine deposits. These soils are in ridges on marine terraces. Slopes range from 2 to 5 percent. Norfolk loamy fine sand is classified as non-hydric. These soils cover approximately 20.7% of the site by area.

Figure 3 shows the site and soils as mapped by the USDA Soil Survey.

Vegetative Communities and Land Uses

Prior to the field visit, Geographic Information System (GIS) data from the Southwest Florida Water Management District (SWFWMD) was reviewed to identify documented vegetative communities and land uses on the property (**Figure 4**). These site conditions are documented using the Florida Land Use, Cover and Forms Classification System (FLUCCS, Florida Department of Transportation, 1999). FLUCCS classifications for the land covers and uses (as adapted from SRWMD coverages) on the property are as follows:

Landuse Description	
4340: Upland Mixed - Coniferous / Hardwood	
LEVEL1 LANDUSE CODE	4000
LEVEL 1 LANDUSE DESCRIPTION	Upland Forest
LEVEL 2 LANDUSE CODE	4300
LEVEL 2 LANDUSE DESCRIPTION	Upland Mixed Forests
LANDCOVER CODE	4340
LANDCOVER DESCRIPTION	4340: Upland Mixed - Coniferous / Hardwood
WATER MANAGEMENT DISTRICT	SR

PRELIMINARY WETLANDS DETERMINATION METHODS

A Preliminary Wetlands Determination/Jurisdictional Flagging was performed on 4/13/2022 via visual transect in the field to establish potential wetlands on-site. On-site soils, hydrology indicators, and plant communities were generally observed in the field.

Results and Discussion

The U.S. Fish and Wildlife Service’s National Wetland Inventory (NWI) online mapper did not indicate the presence of jurisdictional wetland features on the site (**Figure 5**).

Based on field observations, ECS confirmed the absence of a jurisdictional wetland feature present on the site.



PRELIMINARY THREATENED AND ENDANGERED SPECIES METHODS

A listed species survey and habitat assessment were conducted over the property on 4/13/2022. Listed species are defined as those determined to be Threatened, Endangered, or Species of Special Concern by the U.S. Fish and Wildlife Service (USFWS) and/or the Florida Fish and Wildlife Conservation Commission (FWC). Random locations throughout the site were sampled for potential threatened and endangered species of Alachua County, Florida.

Results of Survey

Federal and state listed threatened and endangered species for Alachua County were reviewed from the USFWS North Florida Ecological Services Office website and the Florida Natural Areas Inventory (FNAI) website prior to the site visit (**Appendix III**). Biota was broken down into six categories:

Amphibians

No potential habitat for the frosted flatwoods salamander (*Ambystoma cingulatum*) was noted by the FWC Terrestrial Resources GIS database on, or in the immediate vicinity, of the site. Additionally, no individuals were directly observed on the site at the time of this survey.

No other threatened or endangered species or their habitats were encountered during the time of this survey.

Birds

ECS reviewed the FWC's Historical Bald Eagle Nesting Areas online database. The nearest documented bald eagle (*Haliaeetus leucodephalus*) nest is located approximately 5.32 miles southeast of the site. This nest is located outside of the FWC recommended buffer distance of 660 feet.

ECS reviewed the USFWS' map of Wood Stork (*Mycteria americana*) Nesting Colonies and Core Foraging Areas Active Within 2010-2019. The site appears to be located outside the Core Foraging Areas. Additionally, no individuals or suitable potential habitat were observed on the site at the time of this survey.

No potential habitat for the red-cockaded woodpecker (*Picoides borealis*) was noted by the FWC Terrestrial Resources GIS database on, or in the immediate vicinity of, the site. No individuals were directly observed on the site at the time of this survey. Additionally, the site does not appear to be located within a designated FWC management unit (FWC Red-Cockaded Woodpecker Management Plan, August 2003).

No other threatened or endangered species or their habitats were encountered at the time of this survey.

Fish

No threatened or endangered species were encountered during the time of this survey. No wetlands capable of sustaining a fish community were observed on the interior portion of the subject property.

Mammals

No threatened or endangered species or their habitats were encountered during the time of this survey.

Reptiles

Potential gopher tortoise (*Gopherus polyphemus*) habitat was noted at various locations throughout the site. Several gopher tortoises or suspected gopher tortoise burrows were directly observed on the site at the time of this survey. A more detailed survey will likely be required by FWC during the regulatory permitting review cycle as the habitat is suitable for this species.

The Eastern indigo snake (*Drymarchon corais couperi*) is considered to have a commensal relationship with gopher tortoises, utilizing gopher tortoise burrows as nesting spots. Due to the potential gopher tortoise habitat located on the site, potential Eastern indigo snake habitat is also considered to be present on the site.

No other threatened or endangered species or their habitats were encountered during the time of this survey.

Vascular Plants

No threatened or endangered species or their habitats were encountered during the time of this survey.

CONCLUSIONS

Wetlands

The U.S. Fish and Wildlife Service's National Wetland Inventory (NWI) online mapper did not indicate the presence of jurisdictional wetland features on the site (**Figure 5**). Based on field observations, ECS confirmed the absence of a jurisdictional wetland feature present on the site. Therefore, no ERP permits required.

Species

Potential gopher tortoise (*Gopherus polyphemus*) and Eastern indigo snake (*Drymarchon corais couperi*) habitat was observed on the site at the time of this survey. Please see below for permitting guidance.

No other threatened or endangered species or their habitats were encountered during the time of this survey.

FWC Gopher Tortoise Permitting Guidance

The FWC will likely request additional measures be taken by an applicant during regulatory permit review of this property as a result of the presence of suitable potential gopher tortoise habitat observed on the site at the time of this due diligence investigation.

- A permit is required for any site preparation activity conducted as a precursor to development that disturbs vegetation or the ground which impacts gopher tortoises or their burrows at the time of or as a result of development. To conduct these activities without a permit is a violation of Rule 68A27.003, F.A.C.
- On sites where tortoises are present and burrows (active or inactive) are present, most site preparation activities require a permit. These activities include building construction, bulldozing, paving, clearing, or grading.
- The FWC uses a multi-tiered approach to permitting actions involving gopher tortoises. These permits are divided into three main types: 1) Authorized Agent permits, which authorizes persons to capture, transport, and release tortoises; 2) Site-specific relocation permits, which authorize capturing and relocation of tortoises either within the boundaries of the area being impacted (onsite) or from the area being impacted to a permitted recipient site (off-site); and 3) Recipient Site permits, which authorize the use of designated sites meeting specific criteria as recipient areas for tortoises.
- ECS recommends a 100% Gopher Tortoise Survey be conducted prior to construction.
- If gopher tortoises are present, ECS recommends a gopher tortoise relocation permit application be submitted no earlier than 90 days prior to construction as per the FWC and Rule 68A27.003, F.A.C. Upon your request, ECS can proceed with a proposal for incidental take and relocation mitigation activities.

Indigo Snake General Permitting Guidance

The FWC or FWS may request additional measures be taken by an applicant during regulatory permit review of this property as a result of the presence of suitable potential indigo snake habitat observed on the site at the time of this due diligence investigation. An eastern indigo snake protection/education plan (Plan) has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least 30 days prior to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented. As long as the signatory of the e-mail certifies compliance with the USFWS Plan no further written confirmation or "approval" from the USFWS is needed and the applicant may move forward with the project. ECS can provide this documentation support on your behalf for future permit applications.

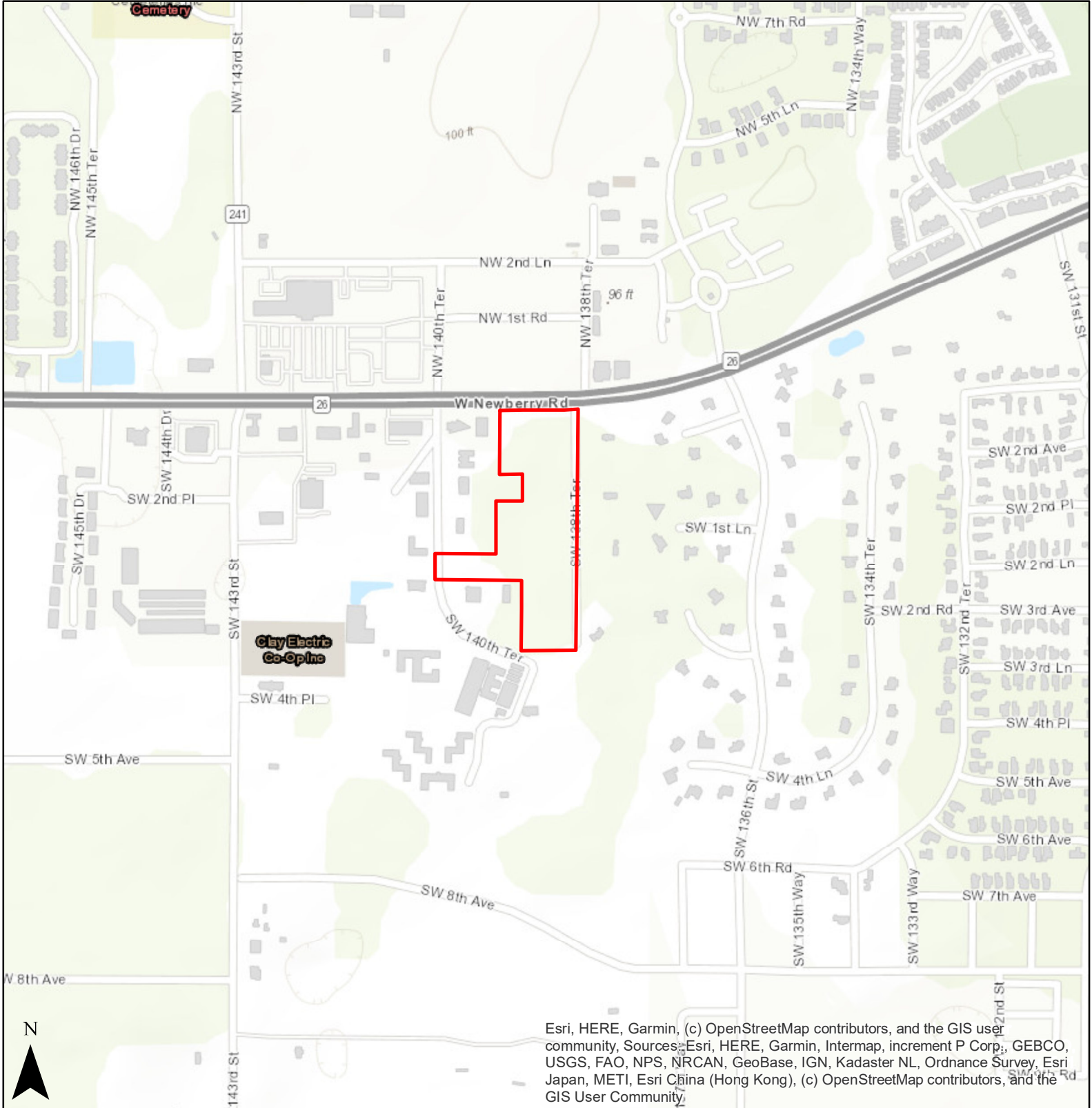
Additional assessment of the site may be required by the appropriate regulatory agencies.

LIMITATIONS OF THIS REPORT

It is important to note that the conclusions of this report are necessarily based on the conditions observed on the day of the field investigation, as well as our scientific judgment of the site's potential to support wetlands or protected species (based on each species' optimal habitat requirements). Due to this "snapshot" view of the site, the results presented in this report may not accurately reflect changing site conditions and/or potential wetland or wildlife species' temporal and spatial locations.

This report is provided for the exclusive use of the listed client. This report is not intended to be used or relied upon in conjunction with other projects or by other unidentified third parties. The use of this report by any undesignated party will be at such party's sole risk and ECS disclaims liability for any such third party use or reliance.

Appendix I: Figures



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

0 465 930 1,860 Feet

Figure 1

Fletcher Center East
 SW 140th Terrace & W Newberry Road
 Newberry, Alachua County, Florida 32669

Legend

 Parcel



Clay Electric
Co-Op Inc

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



0 375 750 1,500 Feet

Figure 2

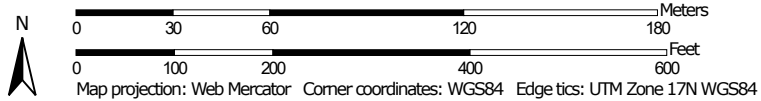
Fletcher Center East
SW 140th Terrace & W Newberry Road
Newberry, Alachua County, Florida 32669

Legend	
	Parcel

Custom Soil Resource Report Soil Map




Map Scale: 1:2,340 if printed on A portrait (8.5" x 11") sheet.




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)




















Soils







 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features






-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Alachua County, Florida
 Survey Area Data: Version 22, Aug 31, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 20, 2019—Jan 1, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Arredondo fine sand, 0 to 5 percent slopes	8.3	66.3%
30	Kendrick sand, 2 to 5 percent slopes	1.6	13.0%
33	Norfolk loamy fine sand, 2 to 5 percent slopes	2.6	20.7%
Totals for Area of Interest		12.5	100.0%

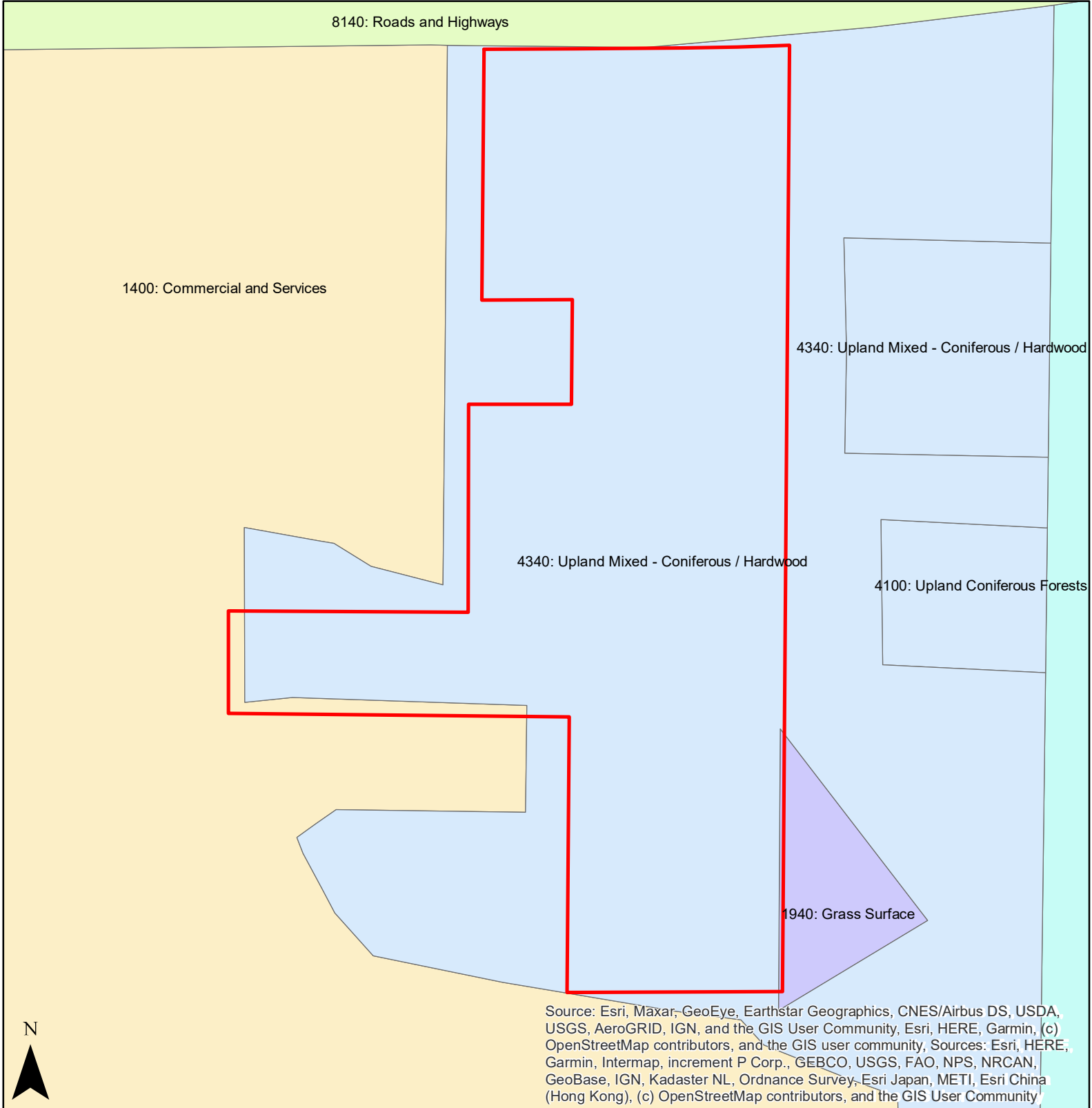
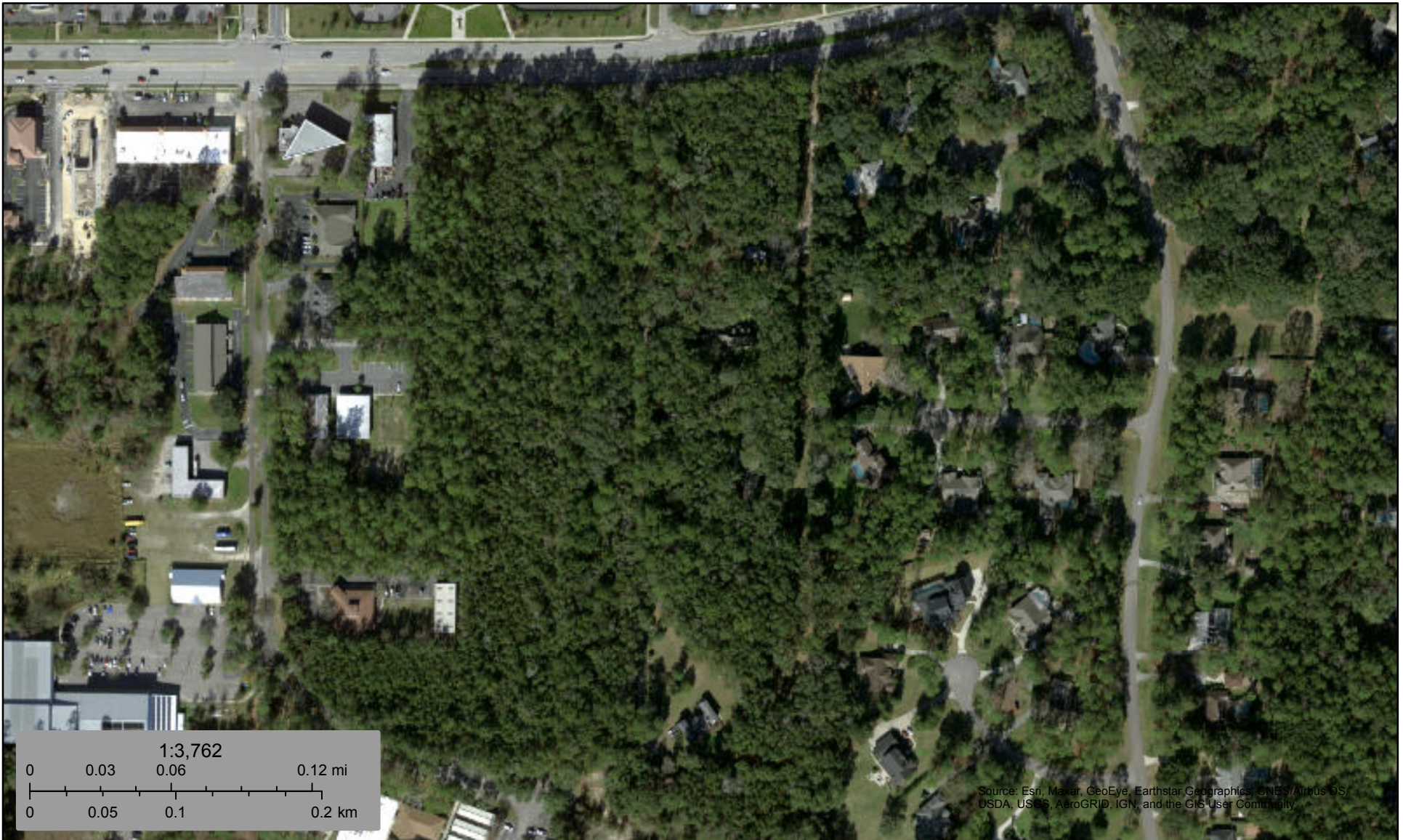









Figure 4
 Fletcher Center East
 SW 140th Terrace & W Newberry Road
 Newberry, Alachua County, Florida 32669

Code	Description	Code	Description	Code	Description
1000	Water	1001	Water	1002	Water
1003	Water	1004	Water	1005	Water
1006	Water	1007	Water	1008	Water
1009	Water	1010	Water	1011	Water
1012	Water	1013	Water	1014	Water
1015	Water	1016	Water	1017	Water
1018	Water	1019	Water	1020	Water
1021	Water	1022	Water	1023	Water
1024	Water	1025	Water	1026	Water
1027	Water	1028	Water	1029	Water
1030	Water	1031	Water	1032	Water
1033	Water	1034	Water	1035	Water
1036	Water	1037	Water	1038	Water
1039	Water	1040	Water	1041	Water
1042	Water	1043	Water	1044	Water
1045	Water	1046	Water	1047	Water
1048	Water	1049	Water	1050	Water
1051	Water	1052	Water	1053	Water
1054	Water	1055	Water	1056	Water
1057	Water	1058	Water	1059	Water
1060	Water	1061	Water	1062	Water
1063	Water	1064	Water	1065	Water
1066	Water	1067	Water	1068	Water
1069	Water	1070	Water	1071	Water
1072	Water	1073	Water	1074	Water
1075	Water	1076	Water	1077	Water
1078	Water	1079	Water	1080	Water
1081	Water	1082	Water	1083	Water
1084	Water	1085	Water	1086	Water
1087	Water	1088	Water	1089	Water
1090	Water	1091	Water	1092	Water
1093	Water	1094	Water	1095	Water
1096	Water	1097	Water	1098	Water
1099	Water	1100	Water	1101	Water
1102	Water	1103	Water	1104	Water
1105	Water	1106	Water	1107	Water
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1114	Water	1115	Water	1116	Water
1117	Water	1118	Water	1119	Water
1120	Water	1121	Water	1122	Water
1123	Water	1124	Water	1125	Water
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1177	Water	1178	Water	1179	Water
1180	Water	1181	Water	1182	Water
1183	Water	1184	Water	1185	Water
1186	Water	1187	Water	1188	Water
1189	Water	1190	Water	1191	Water
1192	Water	1193	Water	1194	Water
1195	Water	1196	Water	1197	Water
1198	Water	1199	Water	1200	Water



April 11, 2022

Wetlands

- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
| | |  | Freshwater Pond |  | Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix II: Site Photos



1 - Representative view of site.



2 - Representative view of site.



3 - Representative view of site.



4 - Representative view of site.



5 - Representative view of site.



6 - Representative view of site.



7 - Representative view of site.



8 - Suspected gopher tortoise burrow.



9 - Suspected gopher tortoise burrow.



10 - Suspected gopher tortoise burrow.



11 - Suspected gopher tortoise burrow.



12 - Suspected gopher tortoise burrow.

Appendix III: A List of Threatened and Endangered Species

State and Federally Listed Species for Alachua County

- Note: Only federally listed plant species are included; "=" means a.k.a.; "SA" means similarity of appearance



Scientific Name	Common Name	State	USFWS	Habitats Used	
Amphibians					
<i>Rana capito</i>	Gopher (=crawfish) frog		Sp. Spec. Concern	Longleaf Pine/Turkey Oak Hills, Sand Pine Scrub, Scrubby Flatwoods, Xeric Oak Hammock (uses ephemeral wetlands for breeding)	
Birds					
<i>Aphelocoma coerulescens</i>	Florida scrub-jay		Threatened	Threatened	Sand Pine Scrub and Scrubby Flatwoods
<i>Aramus guarauna</i>	Limpkin		Sp. Spec. Concern		Mangrove Swamp, Freshwater Marsh & Ponds, Cypress Swamp, Springs, Slough, Sawgrass Marsh, Ruderal (impoundments, canals, sugarcane, etc.)
<i>Egretta caerulea</i>	Little blue heron		Sp. Spec. Concern		N. & S. FL Coastal Strand, Wet Prairie or Slough, Freshwater Marsh & Ponds, Mangrove Swamps, Cypress Swamp, Sawgrass Marsh, Salt Marsh, Shrub Bog & Bay Swamp, Ruderal
<i>Egretta thula</i>	Snowy egret		Sp. Spec. Concern		N. & S. FL Coastal Strand, Wet Prairie or Slough, Freshwater Marsh & Ponds, Mangrove Swamps, Cypress Swamp, Sawgrass Marsh, Salt Marsh, Shrub Bog & Bay Swamp, Ruderal
<i>Egretta tricolor</i>	Tricolored (=Louisiana) heron		Sp. Spec. Concern		N. & S. FL Coastal Strand, Wet Prairie or Slough, Freshwater Marsh & Ponds, Mangrove Swamps, Cypress Swamp, Sawgrass Marsh, Salt Marsh, Shrub Bog & Bay Swamp, Ruderal
<i>Eudocimus albus</i>	White ibis		Sp. Spec. Concern		N. & S. FL Coastal Strand, Wet Prairie or Slough, Freshwater Marsh & Ponds, Mangrove Swamps, Cypress Swamp, Sawgrass Marsh, Salt Marsh, Shrub Bog & Bay Swamp, Ruderal
<i>Falco peregrinus</i>	Peregrine falcon		Endangered		N. & S. FL Coastal Strands (winter), Various Terrestrial and Ruderal Habitats
<i>Falco sparverius paulus</i>	Southeastern American kestrel		Threatened		Open Forests, Clearings, Ruderal, Various Open Habitats
<i>Grus canadensis pratensis</i>	Florida sandhill crane		Threatened		N. & S. FL Flatwoods, Wet Prairie or Slough, Dry Prairie, Shallow Freshwater Marsh, Ruderal (pasture, crop fields, etc.)
<i>Haliaeetus leucocephalus</i>	Bald eagle		Threatened	Threatened	Nearly throughout (estuarine, lacustrine, riverine, terrestrial); nests are usually near water

State and Federally Listed Species for Alachua County

- Note: Only federally listed plant species are included; "=" means a.k.a.; "SA" means similarity of appearance

Scientific Name	Common Name	State	USFWS	Habitats Used
<i>Mycteria americana</i>	Wood stork	Endangered	Endangered	N. & S. FL, Everglades & Cabbage Palm Flatwoods, Pitcher Plant Bog, Sloughs, Sawgrass Marsh, Swamp & Bottomland Hardwoods, Cypress Swamp, Freshwater Marsh & Ponds, Salt Marsh, Wetland Hardwood Hammock, Shrub Bog and Bay Swamp, Cutthroat Seeps
<i>Picoides borealis</i>	Red-cockaded woodpecker	Threatened	Endangered	Longleaf Pine/Turkey Oak Hills, N. & S. FL Flatwoods, Mixed Hardwood Pine
<i>Speotyto cunicularia</i>	Florida burrowing owl	Sp. Spec. Concern		N. & S. FL Flatwoods (dry prairie or grassland habitat), Ruderal (primarily pasture)
Crustaceans				
<i>Palaemonetes cummingsi</i>	Squirrel Chimney (=Florida) cave shrimp	Threatened	Threatened	Limestone Caves (endemic to Alachua County)
Fish				
<i>Micropterus notius</i>	Suwannee bass	Sp. Spec. Concern		Alluvial, Blackwater & Spring-run Streams
Mammals				
<i>Podomys floridanus</i>	Florida mouse	Sp. Spec. Concern		Longleaf Pine/Turkey Oak Hills, Sand Pine Scrub, Scrubby Flatwoods
<i>Sciurus niger shermani</i>	Sherman's fox squirrel	Sp. Spec. Concern		N. & S. FL Flatwoods, Longleaf Pine/Turkey Oak Hills, Ruderal
<i>Sorex longirostris eionis</i>	Homosassa shrew	Sp. Spec. Concern		Swamp & Bottomland Hardwoods, Cypress & Bay Swamps, N. & S. FL Flatwoods, Longleaf Pine/Turkey Oak Hills, Xeric Oak Hammock, Sand Pine Scrub
<i>Ursus americanus floridanus</i>	Florida black bear	Threatened		N. & S. FL & Cabbage Palm Flatwoods, Mixed Hardwood Pine, Wetland to Upland Hardwood & Oak Hammocks, Shrub Bog & Bay Swamp, Cypress Swamp, Freshwater Marsh & Ponds, Pitcher Plant Bog, Swamp and Bottomland Hardwoods, Sand Pine Scrub, Longleaf Pine/Turkey Oak Hills (not applicable in Baker & Columbia counties and Apalachicola Nat'l Forest)





















State and Federally Listed Species for Alachua County























- Note: Only federally listed plant species are included; "=" means a.k.a.; "SA" means similarity of appearance

Scientific Name	Common Name	State	USFWS	Habitats Used
Mollusks				
<i>Pleurobema pyriforme</i>	Oval pigtoe		Endangered	Medium-sized Creeks to Small Rivers (slow to moderate currents over various substrates; Chipola, Econfinia Creek, Ochlockonee watersheds)
Reptiles				
<i>Alligator mississippiensis</i>	American alligator	Sp. Spec. Concern	Endangered - SA	All Flatwoods, Bogs, Sloughs, Swamps, Marshes, Sloughs and Perennial Water Bodies
<i>Drymarchon corais couperi</i>	Eastern indigo snake	Threatened	Threatened	E. indigo snakes use just about all FL Ecol. Communities, Ruderal
<i>Gopherus polyphemus</i>	Gopher tortoise	Sp. Spec. Concern		N. & S. Coastal Strand, Longleaf Pine/Turkey Oak Hills, Sand Pine Scrub, Scrubby Flatwoods, Tropical Hammock, Ruderal
<i>Macrolemys temmincki</i>	Alligator snapping turtle	Sp. Spec. Concern		Salt Marsh, River, Floodplain Lake, Swamp Lake, Alluvial & Blackwater Stream
<i>Pituophis melanoleucus mugitus</i>	Florida pine snake	Sp. Spec. Concern		Longleaf Pine/Turkey Oak Hills, Scrubby Flatwoods, Xeric Oak Hammock, Ruderal
<i>Pseudemys concinna suwanniensis</i>	Suwannee cooter	Sp. Spec. Concern		Alluvial, Blackwater & Spring-run Streams
<i>Stilosoma extenuatum</i>	Short-tailed snake	Threatened		Longleaf Pine/Turkey Oak Hills, Sand Pine Scrub

















Alachua County Listed Species




















Plants & Lichens























Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Plants and Lichens	 <u>Adiantum tenerum</u>	brittle maidenhair fern	G5	S3		E
Plants and Lichens	 <i>Agrimonia incisa</i>	incised groove-bur	G3	S2		T
Plants and Lichens	 <i>Andropogon arctatus</i>	pinewoods bluestem	G3	S3		T
Plants and Lichens	 <i>Asplenium monanthes</i>	single-sorus spleenwort	G4	S1		E
Plants and Lichens	 <u>Asplenium pumilum</u>	dwarf spleenwort	G5	S1		E
Plants and Lichens	 <i>Asplenium verecundum</i>	modest spleenwort	G1	S1		E
Plants and Lichens	 <u>Asplenium x curtissii</u>	Curtiss' spleenwort	GNA	S1		N
Plants and Lichens	 <u>Asplenium x heteroresiliens</u>	Morzenti's spleenwort	G2	S1		N
Plants and Lichens	 <u>Asplenium x plenum</u>	ruffled spleenwort	G1Q	S1		N
Plants and Lichens	 <u>Blechnum occidentale var. minor</u>	hammock fern	G5TNR	S1		E
Plants and Lichens	 <i>Brickellia cordifolia</i>	Flyr's brickell-bush	G3	S2		E
Plants and Lichens	 <u>Callirhoe papaver</u>	poppy mallow	G5	S2		E
Plants and Lichens	 <i>Calopogon multiflorus</i>	many-flowered grass-pink	G2G3	S2S3		T
Plants and Lichens	 <u>Calycanthus floridus</u>	sweet-shrub	G5	S2		E
Plants and Lichens	 <i>Centrosema arenicola</i>	sand butterfly pea	G2Q	S2		E
Plants and Lichens	 <i>Coelorachis tuberculosa</i>	Piedmont jointgrass	G3	S3		T
Plants and Lichens	 <i>Ctenium floridanum</i>	Florida toothache grass	G2	S2		E
Plants and Lichens	 <i>Forestiera godfreyi</i>	Godfrey's swampprivet	G2	S2		E
Plants and Lichens	 <i>Gymnopogon chapmanianus</i>	Chapman's skeletongrass	G3	S3		N
Plants and Lichens	 <i>Hartwrightia floridana</i>	hartwrightia	G2	S2		T





Plants and Lichens	 <i>Litsea aestivalis</i>	pondspice	G3?	S2	E
Plants and Lichens	<i>Malaxis unifolia</i>	green adder's-mouth orchid	G5	S3	E
Plants and Lichens	 <i>Matelea floridana</i>	Florida spiny-pod	G2	S2	E
Plants and Lichens	 Monotropa hypopithys	pinemap	G5	S1	E
Plants and Lichens	 Myriopteris microphylla	southern lip fern	G5	S3	E
Plants and Lichens	 <i>Najas filifolia</i>	Narrowleaf Naiad	G3	S2	T
Plants and Lichens	 Orbexilum virgatum	pineland scurfpea	G1	S1	E
Plants and Lichens	 Pecluma dispersa	widespread polypody	G5	S2	E
Plants and Lichens	 <i>Pecluma plumula</i>	plume polypody	G5	S2	E
Plants and Lichens	 Persicaria meisneriana var. beyrichiana	branched tearthumb	G5?T5?	S1	E
Plants and Lichens	 <i>Pteroglossaspis ecristata</i>	giant orchid	G2G3	S2	T
Plants and Lichens	 <i>Pycnanthemum floridanum</i>	Florida mountain-mint	G3	S3	T
Plants and Lichens	 <i>Salix floridana</i>	Florida willow	G2G3	S2S3	E
Plants and Lichens	 Salvia urticifolia	nettle-leaved sage	G5	S1	E
Plants and Lichens	 Schoenolirion croceum	yellow sunnybell	G4	S2	E
Plants and Lichens	 <i>Sideroxylon alachuense</i>	silver buckthorn	G1	S1	E
Plants and Lichens	 <i>Sideroxylon lycioides</i>	buckthorn	G5	S2	E
Plants and Lichens	 Spiranthes brevibrabis	small ladies'-tresses	G1G2	S1	E
Plants and Lichens	 Spiranthes floridana	Florida ladies'-tresses	G1	S1	N
Plants and Lichens	 <i>Stylisma abdita</i>	scrub stylisma	G3	S3	E
Plants and Lichens	 <i>Thelypteris reptans</i>	creeping maiden fern	G5	S2	E
Plants and Lichens	 <i>Verbesina heterophylla</i>	variable-leaf crownbeard	G2	S2	E
Plants and Lichens	 <i>Zephyranthes simpsonii</i>	redmargin zephyrlily	G2G3	S2S3	T

Invertebrates










Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Amphipods	 <i>Crangonyx grandimanus</i>	Florida Cave Amphipod	G2G3	S2S3		N
Amphipods	 <i>Crangonyx hobbsi</i>	Hobbs's Cave Amphipod	G2G3	S2S3		N
Ants, Bees, and Wasps	 <i>Bombus fraternus</i>	Southern Plains Bumble Bee	G2G4	S1S2		N
Ants, Bees, and Wasps	 <i>Colletes longifacies</i>	A Cellophane Bee	G1G2	S1S2		N
Ants, Bees, and Wasps	 <i>Dasymutilla archboldi</i>	Lake Wales Ridge Velvet Ant	G2G3	S2S3		N
Ants, Bees, and Wasps	 <i>Perdita blatchleyi</i>	Blatchley's Perdita bee	G2	S2		N
Ants, Bees, and Wasps	 <i>Stelis ater</i>	Southwest Florida Stelis Bee	G2	S2		N
Beetles	 <i>Aphodius aegrotus</i>	Small Pocket Gopher Aphodius	G3G4	S3?		N
Beetles	 <i>Aphodius dyspistus</i>	Surprising Pocket Gopher Aphodius	G3G4	S3?		N
Beetles	 <i>Aphodius hubbelli</i>	Hubbell's Pocket Gopher Aphodius	GNR	S3?		N
Beetles	 <i>Aphodius laevigatus</i>	Large Pocket Gopher Aphodius Beetle	G3G4	S3?		N
Beetles	 <i>Aphodius tanytarsus</i>	Long-Clawed Pocket Gopher Aphodius	G2G3	S2S3		N
Beetles	 <i>Aphodius troglodytes</i>	Gopher Tortoise Aphodius Beetle	G2G3	S2		N
Beetles	 <i>Ataenius brevicollis</i>	An Ataenius Beetle	G3G5	S1S2		N
Beetles	 <i>Bolbocerosoma hamatum</i>	Bicolored Burrowing Scarab Beetle	G3G4	S3		N
Beetles	 <i>Ceratocanthus aeneus</i>	Shining Ball Scarab Beetle	G2G3	S2		N
Beetles	 <i>Chelyoxenus xerobatis</i>	Gopher Tortoise Hister Beetle	G2G3	S2		N
Beetles	 <i>Copris gopheri</i>	Gopher Tortoise Copris Beetle	G2	S2		N
Beetles	 <i>Eucanthus alutaceus</i>	Mat Red Globe Scarab Beetle	G2G3	S1S2		N
Beetles	 <i>Hypotrachia spissipes</i>	Florida Hypotrachia Scarab Beetle	G3G4	S3S4		N
Beetles	 <i>Ischyryus dunedinensis</i>	Three Spotted Pleasing Fungus	G2G3	S2S3		N
Beetles	 <i>Mycotrupes gaigei</i>	North Peninsular Mycotrupes Beetle	G2G3	S2S3		N
Beetles	 <i>Onthophagus polyphemi polyphemi</i>	Punctate Gopher Tortoise	G2G3T2T3	S2		N
Beetles	 <i>Peltotrupes profundus</i>	Florida Deepdigger	G3	S3		N
Beetles	 <i>Phyllophaga clemens</i>	Clemens' June Beetle	G2	S1		N

Beetles	 Phyllophaga elongata	Elongate June Beetle	G3	S3	N
Beetles	 Phyllophaga skelleyi	Skelley's June Beetle	G2	S2	N
Beetles	 Ptomaphagus schwarzi	Schwarz' Pocket Gopher Ptomaphagus	G3	S3	N
Beetles	 Selonodon floridensis	Florida Cebrioid Beetle	G2G4	S2S4	N
Beetles	 Selonodon mandibularis	Large-Jawed Cebrioid Beetle	G2G4	S2S4	N
Beetles	 Serica pusilla	Pygmy Silky June Beetle	G2G3	S2S3	N
Beetles	 Trigonopeltastes floridana	Scrub Palmetto Flower Scarab	G2G3	S2S3	N
Beetles	 Triplaxalachuae	Alachua Pleasing Fungus Beetle	G2G4	S2S4	N
Butterflies and Moths	 Achalarus lyciades	Hoary Edge	G5	S2	N
Butterflies and Moths	 Amblyscirtes aesculapius	Lace-winged Roadside Skipper	G3G4	S3S4	N
Butterflies and Moths	 Autochton cellus	Golden-banded Skipper	G4	S1	N
Butterflies and Moths	 Callophrys niphon	Eastern Pine Elfin	G5	S2	N
Butterflies and Moths	 Catocala grisatra	Grisatra Underwing Moth	G2	S2	N
Butterflies and Moths	 Celastrina ladon	Spring Azure	G4G5	S2?	N
Butterflies and Moths	 Cupido comyntas	Eastern Tailed Blue	G5	S2	N
Butterflies and Moths	 Euphyes dion	Dion Skipper	G5	S2S3	N
Butterflies and Moths	 Euphyes dukesi calhouni	Calhoun's Skipper	G3G4T1	S1	N
Butterflies and Moths	 Hesperia attalus slossonae	Seminole Skipper	G3G4T3	S3	N
Butterflies and Moths	 Hesperia meskei straton	Eastern Meske's Skipper	G3G4T3	S2S3	N
Butterflies and Moths	 Idia gopheri	Gopher Tortoise Noctuid Moth	G2G3	S2S3	N













Butterflies and Moths	 Nastra neamathla	Neamathla Skipper	G4	S2S3		N
Butterflies and Moths	 Nymphalis antiopa	Mourning Cloak	G5	S2		N
Butterflies and Moths	 Poanes viator zizaniae	Broad-winged Skipper	G5T5	S2		N
Butterflies and Moths	 Poanes yehl	Yehl Skipper	G4	S2S3		N
Butterflies and Moths	 Polites origenes	Crossline Skipper	G5?	S3		N
Butterflies and Moths	 Satyrium kingi	King's Hairstreak	G3G4	S2		N
Butterflies and Moths	 Staphylus hayhurstii	Scalloped Sooty Wing	G5	S2		N
Caddisflies	 Agarodes libalis	Spring-loving Psiloneuran	G3	S3		N
Caddisflies	 Cernotina truncona	Florida Cernotinan Caddisfly	G4	S3		N
Caddisflies	 Chimarra florida	Floridian Finger-net Caddisfly	G4	S3S4		N
Caddisflies	 Hydroptila bernerii	Berner's Microcaddisfly	G4G5	S3		N
Caddisflies	 Hydroptila wakulla	Wakulla Springs Vari-colored	G2	S2		N
Caddisflies	 Oecetis daytona	Daytona Long-horned Caddisfly	G3	S2S3		N
Caddisflies	 Oecetis parva	Little Oecetis Longhorned	G2	S2		N
Caddisflies	 Oecetis porteri	Porter's Long-horn Caddisfly	G3G4	S2S3		N
Caddisflies	 Oxyethira pescadori	Pescador's Bottle-Cased Caddisfly	G3G4	S3		N
Caddisflies	 Triaenodes florida	Floridian Triaenode Caddisfly	G3	S2		N
Clams and Mussels	 Medionidus walkeri	Suwannee Moccasinshell	G1	S1	T	FT
Clams and Mussels	 Quadrula kleiniana	Florida Mapleleaf	G2G3	S2		N
Clams and Mussels	 Utterbackia peninsularis	Peninsular Floater	G2G3	S2S3		N
Clams and Mussels	 Villosa amygdala	Florida Rainbow	G3	S3		N
Crabs, Crayfishes, and Shrimps	 Palaemonetes	Squirrel Chimney	GH	SH	T	FT
Crabs, Crayfishes, and Shrimps	 Procambarus lucifugus	Light-fleeing Cave Crayfish	G1G2	S1S2		N
Crabs, Crayfishes, and Shrimps	 Procambarus pallidus	Pallid Cave Crayfish	G2G3	S2S3		N

Crabs, Crayfishes, and Shrimps	 Troglocambarus maclanei	North Florida Spider Cave Crayfish	G2	S2	N
Dragonflies and Damselflies	 Lorauegaster oobiqua fasciata	Banded Spiketail	G4T3Q	S3	N
Dragonflies and Damselflies	 Cordulegaster sayi	Say's Spiketail	G3	S3	N
Dragonflies and Damselflies	 Didymops floridensis	Maidencane Cruiser	G4	S4	N
Dragonflies and Damselflies	 Dromogomphus armatus	Southeastern Spinyleg	G4	S3	N
Dragonflies and Damselflies	 Gomphaeschna antilope	Taper-tailed Darner	G4	S4	N
Dragonflies and Damselflies	 Lestes inaequalis	Elegant Spreadwing	G5	S2	N
Dragonflies and Damselflies	 Neurocordulia obsoleta	Umber Shadowfly	G5	S2	N
Dragonflies and Damselflies	 Progomphus alachuensis	Tawny Sanddragon	G3	S3	N
Dragonflies and Damselflies	 Tachopteryx thorevi	Gray Petaltail	G4	S3	N
Fairy Shrimps	 Dexteria floridana	Florida Fairy Shrimp	GH	SH	N
Flies	 Nemopalpus nearcticus	Sugarfoot Moth Fly	G2	S2	N
Grasshoppers and Allies	 Melanoplus querneus	Larger Sandhill Grasshopper	G2G3	S2S3	N
Grasshoppers and Allies	 Typhlocyathophilus floridanus	Blind Pocket Gopher Cave Cricket	G2	S2	N
Isopods	 Caecidotea hobbsi	Florida Cave Isopod	G1G2	S1S2	N
Isopods	 Remasellus parvus	Swimming Little	G1G2	S1S2	N
Scorpionflies	 Panorpa floridana	Florida Scorpionfly	G1	S1	N
Snails and Allies	 Aphaostracon chalarogyrus	Freemouth Hydrobe Snail	G1	S1	N
Spiders	 Phidippus workmani	Workman's Jumping Spider	G2G3	S2S3	N















Vertebrates

Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Amphibians	 Ambystoma cingulatum	Frosted Flatwoods Salamander	G2	S1	T	FT
Amphibians	 Ambystoma tigrinum	Eastern Tiger Salamander	G5	S3		N
Amphibians	 Lithobates capito	Gopher Frog	G2G3	S3		N
Amphibians	 Notophthalmus perstriatus	Striped Newt	G2G3	S2		C
Birds	 Antigone canadensis	Florida Sandhill Crane	G5T2	S2		ST
Birds	 Aphelocoma coerulescens	Florida Scrub-Jay	G1G2	S1S2	T	FT
Birds	 Athene cunicularia floridana	Florida Burrowing Owl	G4T3	S3		ST
Birds	 Dryobates villosus	Hairy Woodpecker	G5	S3		N
Birds	 Egretta caerulea	Little Blue Heron	G5	S4		ST

Birds	 <i>Egretta thula</i>	Snowy Egret	G5	S3		N
Birds	 <i>Egretta tricolor</i>	Tricolored Heron	G5	S4		ST
Birds	 <i>Elanoides</i>	Swallow-tailed Kite	G5	S2		N
Birds	 <i>Eudocimus albus</i>	White Ibis	G5	S4		N
Birds	 <i>Falco sparverius paulus</i>	Southeastern American Kestrel	G5T4	S3		ST
Birds	 <i>Haliaeetus leucocephalus</i>	Bald Eagle	G5	S3		N
Birds	 <u>Laterallus jamaicensis</u>	Black Rail	G3	S2	T	N
Birds	 <i>Mycteria americana</i>	Wood Stork	G4	S2	T	FT
Birds	 <u>Nyctanassa violacea</u>	Yellow-crowned Night-heron	G5	S3		N
Birds	 <u>Nycticorax nycticorax</u>	Black-crowned Night-heron	G5	S3		N
Birds	 <i>Pandion haliaetus</i>	Osprey	G5	S3S4		N
Birds	 <i>Peucaea aestivalis</i>	Bachman's Sparrow	G3	S3		N
Birds	 <u>Plegadis falcinellus</u>	Glossy Ibis	G5	S3		N
Birds	 <i>Rostrhamus sociabilis</i>	Snail Kite	G4G5	S2	E	FE
Fishes	 <u>Acantharchus pomotis</u>	Mud Sunfish	G4G5	S3		N
Fishes	 <i>Acipenser oxyrinchus desotoi</i>	Gulf Sturgeon	G3T2T3	S2?	T	FT
Fishes	 <u>Ameiurus serracanthus</u>	Spotted Bullhead	G3	S3		N
Fishes	 <u>Amniacanthus chaetodon</u>	Blackbanded	G3G4	S1S3		N
Fishes	 <i>Micropterus notius</i>	Suwannee Bass	G3	S3		N
Fishes	 <u>Umbra pygmaea</u>	Eastern	G5	S3		N
Mammals	 <u>Eptesicus fuscus</u>	Big Brown Bat	G5	S3		N
Mammals	 <u>Mustela frenata olivacea</u>	Southeastern Weasel	G5T4	S3?		N
Mammals	 <i>Myotis</i>	Southeastern	G4	S3		N
Mammals	 <i>Neofiber alleni</i>	Round-tailed Muskrat	G2	S2		N
Mammals	 <i>Podomys floridanus</i>	Florida Mouse	G3	S3		N
Mammals	 <i>Sciurus niger niger</i>	Southeastern Fox Squirrel	G5T5	S3		N
Mammals	 <i>Ursus americanus floridanus</i>	Florida Black Bear	G5T4	S4		N
Reptiles	 <i>Alligator mississippiensis</i>	American Alligator	G5	S4	SAT	FT(S/A)

Reptiles	 <i>Clemmys guttata</i>	Spotted Turtle	G5	S2S3		N
Reptiles	 <i>Crotalus</i>	Eastern	G3	S3		N
Reptiles	 <i>Crotalus horridus</i>	Timber Rattlesnake	G4	S3		N
Reptiles	 <i>Drymarchon</i>	Eastern Indigo	G3	S2?	T	FT
Reptiles	 <i>Gopherus polyphemus</i>	Gopher Tortoise	G3	S3	C	ST
Reptiles	 <i>Heterodon simus</i>	Southern Hognose	G2	S2S3		N
Reptiles	 <i>Lampropeltis extenuata</i>	Short-tailed Snake	G3	S3		ST
Reptiles	 <i>Lampropeltis floridana</i>	Florida Kingsnake	G2	S2		N
Reptiles	 <i>Lampropeltis getula</i>	Eastern Kingsnake	G5	S1S2		N
Reptiles	 <i>Macrochelys suwanniensis</i>	Suwannee Alligator Snapping Turtle	G2	S2	PT	ST
Reptiles	 <i>Pituophis melanoleucus</i>	Pine Snake	G4	S3		ST
Reptiles	 <i>Pseudemys concinna suwanniensis</i>	Suwannee Cooter	G5T3	S3		N

Natural Communities

Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status
Natural Communities	 Aquatic cave		G3	S3		N
Natural Communities	 Basin marsh		G4	S3		N
Natural Communities	 Basin swamp		G4	S3		N
Natural Communities	 Blackwater stream		G4	S3		N
Natural Communities	 Bottomland forest		G4	S3		N
Natural Communities	 Depression marsh		G4	S4		N
Natural Communities	 Sandhill		G3	S2		N
Natural Communities	 Scrubby flatwoods		G2	S2?		N
Natural Communities	 Sinkhole		G2	S2		N
Natural Communities	 Spring-run stream		G2	S2		N
Natural Communities	 Terrestrial cave		G3	S2		N
Natural Communities	 Upland hardwood forest		G5	S3		N
Natural Communities	 Upland mixed woodland		G2	S2		N
Natural Communities	 Wet flatwoods		G4	S4		N