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Revision Number 3

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **DODINE FL**

Other means of identification

Product Code 2123010
CAS Number Mixture
Formula Mixture
Synonyms Dodine
UN-No UN2902
EPA Registration Number 2749-624

Recommended use of the chemical and restrictions on use

Recommended Use Agriculture
Uses advised against Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO LIFE SCIENCES, LLC
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency telephone number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

| | |
|---|------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 3 |
| Skin Corrosion/Irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Chronic aquatic toxicity | Category 1 |
| Acute aquatic toxicity | Category 1 |

Label elements

Emergency Overview

Signal Word
DANGER

Hazard statements

Harmful if swallowed
 Toxic if inhaled
 Causes skin irritation
 Causes serious eye damage
 Very toxic to aquatic life with long lasting effects

**Appearance**

Viscous opaque

Physical State

Liquid

Odor

Negligible

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present .
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN: Wash with plenty of soap and water
 If skin irritation occurs: Get medical advice/attention
 Take off contaminated clothing and wash before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Dodine

Formula

Mixture

| Chemical name | CAS No. | Weight-% | North American Hazard Indicator |
|---------------|-----------|----------|---------------------------------|
| Dodine | 2439-10-3 | 38-41 | True |

4. FIRST AID MEASURES

First Aid Measures

| | |
|---|--|
| General Advice | Show this safety data sheet to the doctor in attendance. |
| Eye Contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, consult a specialist. |
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Consult a physician if necessary. |
| Inhalation | Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician. |
| Ingestion | If large amounts were swallowed, give water to drink. Do NOT induce vomiting. Call a physician immediately. |
| Self-Protection of the First Aider | Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. |

Most important symptoms and effects, both acute and delayed

Signs and Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| <u>Suitable Extinguishing Media</u> | Foam. Dry powder. Carbon dioxide (CO ₂). Water fog. |
| <u>Unsuitable Extinguishing Media</u> | high volume water jet. |
| <u>Hazardous Combustion Products</u> | Thermal decomposition or combustion may produce hazardous gases and/or materials. |
| <u>Explosion Data</u> | Not available |
| Sensitivity to mechanical impact | Not available. |
| Sensitivity to static discharge | Not available. |

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

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 Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up

Methods for Clean-up Pick up and transfer to properly labelled containers.

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

Handling Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours/dust. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.

Conditions for safe storage, including any incompatibilities

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------|-----------|----------|------------|
| Dodine 2439-10-3 | - | - | - |
| Other Ingredients N/A | - | - | - |

Appropriate engineering controls**Individual protection measures, such as personal protective equipment**

Eye/Face Protection Tight sealing safety goggles.

Skin and body protection Use suitable eye protection and gloves.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment.

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**

| | |
|-----------------------|--------------------------|
| Appearance | Viscous opaque |
| Physical State | Liquid |
| Odor | Negligible |
| Color | White |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--------------------------------|--------------------------|
| pH | 6.1 | |
| Melting point / Freezing point | No Data Available | Literary Reference |
| Boiling point / boiling range | No information available | |
| Flash Point | No Data Available | No information available |
| Evaporation Rate | No information available | |
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | No information available | |
| Upper flammability limit | No information available | |
| Lower flammability limit | Not available | |
| Vapor Pressure | No information available | |
| Vapor Density | Not available | |
| Specific Gravity | 1.015 g/cm ³ (20 C) | |
| Water Solubility | No information available | |
| Solubility in other solvents | No information available | |
| Partition coefficient: n-octanol/water | Not available | |
| Autoignition temperature °C | 430 °C | |
| Decomposition temperature | No Data Available | |
| Kinematic Viscosity | No information available | |
| Dynamic Viscosity | 800 cP (20 C) | |
| Explosive Properties | No information available | |
| Oxidizing Properties | The product is not oxidizing | |

Other Information

| | |
|----------------------------------|--------------------------|
| Softening Point | No information available |
| Molecular Weight | No information available |
| VOC content | No information available |
| Liquid Density | No information available |
| Bulk density | No information available |
| Corrosion characteristics | No information available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | When exposed to heat, may decompose liberating hazardous gases. |
| Chemical Stability | Stable under recommended storage conditions |
| Conditions to Avoid | Protect from sunlight. Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible Materials | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous Decomposition Products | No information available. |
| Possibility of Hazardous Reactions | None under normal processing |

11. TOXICOLOGICAL INFORMATION

Product Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|---------------------|------------------------|------------------|
| Dodine | = 851 mg/kg (Rat) | >2000 mg/kg (Rabbit) | 0.45 mg/l (4-hr) |

| | |
|-------------------------|---------------|
| Oral LD50 | 2000 mg/kg |
| Dermal LD50 | > 2000 mg/kg |
| LC50 Inhalation: | 0.65 mg/L; 4H |

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

Information on likely routes of exposure

| | |
|-------------|---|
| Eyes | Causes serious eye damage and possible burns to eyes. |
| Skin | May cause skin irritation and/or dermatitis. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

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

| Chemical name | ACGIH | IARC | NTP | OSHA |
|--------------------------|-------|------|-----|------|
| Dodine 2439-10-3 | - | - | - | - |
| Other Ingredients N/A | A4 | - | - | - |

Serious eye damage/irritation No information available.

Skin Corrosion/Irritation No information available.

Sensitization No information available.

Reproductive Effects No information available.

Mutagenic Effects No information available.

Developmental Effects No information available.

STOT - single exposure No information available.

STOT - Repeated Exposure No information available.

Aspiration Hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects
Avoid release to the environment

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------------|----------------------|------------------|----------------------------|-----------------------------------|
| Dodine 2439-10-3 | - | 96 hr = 1.5 mg/L | - | DAPHNIA EC50 48hr = 0.146 mg/L |

Persistence/Degradability No information available.

Bioaccumulation/Accumulation No information available.

Mobility in Soil No information available.

| Chemical name | log Pow = |
|---------------------|-----------|
| Dodine 2439-10-3 | - |

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-No UN2902
Proper Shipping Name Pesticides, liquid, toxic, n.o.s.
Hazard class 6.1
Packing Group III
DOT Marine Pollutant NP.
Description UN2902, Pesticides, liquid, toxic, n.o.s. (Dodine), 6.1, III

TDG

UN-No UN2902
Proper Shipping Name Pesticide, liquid, toxic, n.o.s.
Hazard class 6.1
Packing Group III
Description UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III

MEX

UN-No UN2902
Proper Shipping Name Pesticide, liquid, toxic, n.o.s.
Hazard class 6.1
Packing Group III
Description UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III

ICAO

UN-No UN2902
Proper Shipping Name Pesticide, liquid, toxic, n.o.s.
Hazard class 6.1
Packing Group III
Description UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III

IATA

| | |
|-----------------------------------|---|
| UN number | UN2902 |
| Proper Shipping Name | Pesticide, liquid, toxic, n.o.s. |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| Description | UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III |

IMDG

| | |
|-----------------------------------|--|
| UN number | UN2902 |
| Proper Shipping Name | Pesticide, liquid, toxic, n.o.s. |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| EmS No. | F-A, S-A |
| Marine Pollutant | This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO |
| Description | UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III |

RID

| | |
|-----------------------------------|---|
| UN-No | UN2902 |
| Proper Shipping Name | PESTICIDE, LIQUID, TOXIC, N.O.S. |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| Classification Code | T6 |
| Description | UN2902, PESTICIDE, LIQUID, TOXIC, N.O.S. (Dodine), 6.1, III |
| ADR/RID-Labels | 6.1 |

ADR

| | |
|--------------------------------|--|
| UN-No | UN2902 |
| Proper Shipping Name | Pesticide, liquid, toxic, n.o.s. |
| Hazard Class | 6.1 |
| Packing Group | III |
| Classification Code | T6 |
| Tunnel Restriction Code | (E) |
| Description | UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III, (E) |
| Labels | 6.1 |

ADN

| | |
|-----------------------------------|---|
| Proper Shipping Name | Pesticide, liquid, toxic, n.o.s. |
| Transport hazard class(es) | 6.1 |
| Packing Group | III |
| Classification Code | T6 |
| Special Provisions | 61, 274, 648, 802 |
| Description | UN2902, Pesticide, liquid, toxic, n.o.s. (Dodine), 6.1, III |
| Hazard label(s) | 6.1 |
| Limited Quantity | 5 L |
| Ventilation | VE02 |
| Equipment Requirements | PP, EP, TOX, A |

15. REGULATORY INFORMATION

International Inventories

| | |
|----------------------------|-----------------|
| TSCA | Does not comply |
| Canada (DSL) | Does not comply |
| EU (EINECS) | Does not comply |
| EU (ELINCS) | Does not comply |
| Japan (ENCS) | Does not comply |
| China (IECSC) | Does not comply |
| Korea (KECL) | Does not comply |
| Philippines (PICCS) | Does not comply |
| Australia (AICS) | Does not comply |

Mexico INV Does not comply
Taiwan INV Does not comply

| Chemical name | U.S.A. (TSCA) | Canada (DSL) | EU (EINECS) | EU (ELINCS) | |
|---------------------|---------------|---------------|--------------|---------------------|------------------|
| Dodine | Present | Present | X | - | |
| Component | Japan (ENCS) | China (IECSC) | Korea (KECL) | Philippines (PICCS) | Australia (AICS) |
| - | - | Present | Present | - | Present |
| Chemical name | Mexico INV | | Taiwan INV | | |
| Dodine 2439-10-3 | - | | Present | | |

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA. This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required by Safety Data Sheets, and for workplace labels of non-pesticide chemicals.

Federal Regulations

SARA 313

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

| Component | SARA 313 - Threshold Values |
|-------------------------------|--------------------------------|
| Dodine 2439-10-3 (38-41) | 1.0 % de minimis concentration |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

VOC content

This Product does not contain any VOCs

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)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Dodine 2439-10-3 | - | - | - | - |

CERCLA

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

| Chemical name | CERCLA/SARA Hazardous Substances | CERCLA/SARA RQ | RQ |
|---------------------|----------------------------------|----------------|----|
| Dodine 2439-10-3 | - | - | - |

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product contains the following State Right-to-Know chemicals:

| Chemical name | New Jersey | Massachusetts | Illinois | Rhode Island | Pennsylvania |
|---------------------|------------|---------------|----------|--------------|--------------|
| Dodine 2439-10-3 | sn 3579 | - | - | - | - |

U.S. EPA Label Information

EPA Pesticide Registration Number 2749-624

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by SOR/2015-17.

| |
|------------------------------|
| 16. OTHER INFORMATION |
|------------------------------|

NFPA

Health 3

Flammability 0

Instability 0

Physical Hazard 0



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08-Apr-2015

Revision Date

10-Apr-2023

Not available

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