

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: ZW800-1 Forte-NHS Ester
Product Number: N/A

Brand: Lab-FLARE®
CAS Number: N/A

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

Identified uses: Molecular imaging.

1.3 Details of the supplier of the safety data sheet

Company: Curadel ResVet Imaging, LLC
257 Simarano Drive, Suite 100
Worcester, MA 01605
USA

Telephone: 1 508 305 2355
Fax: 1 508 251 2029
E-mail: support@resvet.curadel.com
URL: www.curadelresvetimaging.com

1.4 Emergency Telephone Number

Emergency Phone #: 1 508 305 2355

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

2.2 GHS Label elements, including precautionary statements

Pictogram: None.
Signal word: No signal word.

Hazard statement(s):
No known significant effects or critical hazards.

Precautionary statement(s):

No known significant effects or critical hazards.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms: ZW800-1 Forte-NHS
 Formula: C₅₅H₇₀N₅O₁₀S₂•□PF₆
 Molecular Weight: 1170– as hexafluorophosphate salt
 CAS-No. N/A
 EC-No. N/A

Hazardous Components

| Component | Classification | Concentration |
|--|----------------|---------------|
| No ingredients are hazardous according to OSHA criteria. | | |

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

None.

If Inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In Case of Skin Contact

Wash off with soap and plenty of water.

In Case of Eye Contact

Flush eyes with water as a precaution.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

None.

4.2 Indication of any immediate medical attention and special treatment needed

None.

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighters

None.

5.4 Further information

None.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.

6.2 Environmental precautions

None.

6.3 Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

6.4 Reference to other sections

None.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Store between 2 and 8 °C in a tightly closed and sealed container. Protect from direct sunlight.

7.3 Specific end use(s)

Molecular imaging.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

None.

8.2 Exposure controls

Appropriate engineering controls

None.

Personal protective equipment

Safety glasses with sideshields. Face shields or goggles may be required if splash potential exists. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area. Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.

Body Protection

For handling of laboratory scale quantities, a cloth lab coat. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.

Respiratory protection

Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).

Control of environmental exposure

None.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

| | | |
|----|--|-------------------------------------|
| a) | Appearance | Dark green/blue lyophilized powder. |
| b) | Odor | No data available. |
| c) | Odor Threshold | No data available. |
| d) | pH | No data available. |
| e) | Melting point/freezing point | No data available. |
| f) | Initial boiling point and boiling range | No data available. |
| g) | Flash Point | No data available. |
| h) | Evaporation Rate | No data available. |
| i) | Flammability (solid, gas) | No data available. |
| j) | Upper/Lower flammability or explosive limits | No data available. |
| k) | Vapor Pressure | No data available. |
| l) | Vapor Density | No data available. |
| m) | Relative Density | No data available. |
| n) | Water Solubility | No data available. |
| o) | Partition coefficient: n-octanol/water | No data available. |
| p) | Auto-ignition temperature | No data available. |
| q) | Decomposition temperature | No data available. |
| r) | Viscosity | No data available. |
| s) | Explosive Properties | No data available. |
| t) | Oxidizing properties | No data available. |

9.2 Other Safety Information

None.

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available.

10.2 Chemical Stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Inhalation: No data available.

Dermal: No data available.

Skin corrosion/irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No data available.

ACGIH: No data available.

NTP: No data available.

OSHA: No data available.

Reproductive Toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional Information

No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION**16.1 Preparation Information**

Curadel ResVet Imaging
Product Safety
774-243-9515

To the best of our knowledge, the information contained herein is accurate. However, neither Curadel, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.