

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: ZW800-1 Tetrafluorophenyl (TFP)
Product Number: 1 mg: 97-02-01-0053
10 mg: 97-02-01-0054

Brand: Lab-FLARE®
CAS Number: N/A

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

Identified uses: NIR conjugation.

1.3 Details of the supplier of the safety data sheet

Company: Curadel ResVet Imaging, LLC
377 Plantation Street
Worcester, MA 01605
USA
Telephone: 774-243-9515
Fax: 774-243-9517
E-mail: support@resvet.curadel.com
URL: www.curadelresvetimaging.com

1.4 Emergency Telephone Number

Emergency Phone #: 774-243-9515

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

For the full list of H statements see section 16

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):

P261	Avoid breathing dust
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/ eye protection/ face protection
P302 + P352	IF ON SKIN: wash with plenty of soap and water
P304 + P340	IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or physician if you feel unwell
P321	Specific treatment (see supplemental instructions on this label)
P332 + P313	If skin irritation occurs: get medical attention
P337 + P313	If eye irritation persists: get medical attention
P362	Take off contaminated clothing and wash before reuse
P403 + P233	Store in a well-ventilated place. Keep container tightly closed
P405	Store locked up
P501	Dispose of contents/container to an approved waste disposal plant

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

None.

3. COMPOSITION/INFORMATION ON INGREDIENTS
3.1 Substances

Synonyms:	ZW800-1 TFP
Formula:	C ₅₇ H ₆₇ F ₄ N ₄ O ₉ S ₂ (inner salt)
Molecular Weight:	1205 g/mol (TFA 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

Consult a physician. Show this safety data sheet to medical professional. Move out of dangerous area.

If Inhaled

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

In Case of Skin Contact

Wash off with soap and plenty of water. Consult physician.

In Case of Eye Contact

Flush eyes with water for a minimum of 15 minutes as a precaution. Consult a physician.

If Swallowed

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

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms are described in section 2.2.

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

Carbon oxides, Nitrogen oxides, Sulfur oxides, sodium oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus if necessary.

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 blue-green solid.
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

Irritating to eyes, respiratory system and skin

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity

No data available.

Specific target organ toxicity - single exposure

Inhalation: may cause respiratory irritation.

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 the above named supplier, 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.