# SAFETY DATA SHEET

Revision date 19-August-2022

Revision date 19-August-2022		Revision Number
1. Identification		
Product identifier		
Product Name	(+)-5-FLUORODEOXYURIDINE	
Other means of identification		
Product Code(s)	F2026	
UN/ID no	UN2811	
Synonyms	None	
Recommended use of the chemica	al and restrictions on use	
Recommended use	No information available	
Restrictions on use	No information available	
Details of the supplier of the safet	y data sheet	
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000		
Emergency telephone number		
Emergency Telephone	Chemtrec 1-800-424-9300	
2. Hazard(s) identification		

#### **Classification**

Acute toxicity - Oral	Category 3
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 1A

## Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Danger

Hazard statements

Toxic if swallowed Suspected of causing genetic defects May damage fertility or the unborn child



Revision Number 1



Physical state Solid

Odor No information available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection 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 or concerned: Get medical advice/attention Specific treatment (see .? on this label) IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

No information available.

# 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%	Trade secret
(+)-5-Fluorodeoxyuridine	50-91-9	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures	
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impac	ct none.
Sensitivity to static discharge	none.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
6. Accidental release meas	sures
Personal precautions, protective ed	quipment and emergency procedures
Personal precautions	Ensure adequate ventilation.
Methods and material for containment and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

### 7. Handling and storage

#### Precautions for safe handling

 Advice on safe handling
 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

 Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach<br/>of children. Store locked up.

# 8. Exposure controls/personal protection

#### Control parameters

**Exposure Limits** 

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here.

Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	No special protective equipment required.
Hand protection	Wear suitable gloves.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

# 9. Physical and chemical properties

Appropriate engineering controls

Information on basic physical and	chemical properties	
Physical state	Solid	
Appearance	Crystalline powder	
Color	White	
Odor	No information available	
Odor threshold	No information available	
Property_	Values	Remarks • Method
pH	no data available	None known
Melting point / freezing point	150 °C / 302 °F	None known
Boiling point / boiling range	no data available	None known
Flash point	no data available	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	no data available	None known
Relative density	1.6	None known
Water solubility	Soluble in water	None known
Solubility(ies)	Soluble in Alcohol	None known
	Soluble in Acetone	
	Soluble in Dimethyl Sulfoxide	
	Insoluble in Benzene	
	Insoluble in Chloroform	
	Insoluble in Ether	
Partition coefficient	No data available	None known
Autoignition temperature	no data available	None known
Decomposition temperature		None known
Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	

Softening point Molecular weight VOC Content (%) Liquid Density Bulk density No information available No information available No information available No information available No information available

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
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	
Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).
Symptoms related to the physical	chemical and toxicological characteristics

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

50 Inhalation LC50
-

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

Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ cell mutagenicity	No information available. No information available. No information available. Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.
Reproductive toxicity	Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.
STOT - single exposure STOT - repeated exposure	No information available. No information available.

Aspiration hazard	No information available.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information		
Ecotoxicity	The environmental impact of this product has not been fully investigated.	
Persistence and degradability Bioaccumulation	No information available. Inherently biodegradable.	
Other adverse effects	No information available.	

13. Disposal considerations		
Waste treatment methods		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
Contaminated packaging	Do not reuse empty containers.	

# 14. Transport information

# DOT

UN/ID no Proper Shipping Name: Hazard class Packing group: Special Provisions Marine Pollutant Description:	UN2811 Toxic solids, organic, n.o.s. 6.1 III IB8, IP3, T1, TP33 Severe Marine Pollutant UN2811, Toxic solids, organic, n.o.s., 6.1, III
TDG UN-No: Proper Shipping Name: Hazard class Packing Group: Special Provisions Description:	UN2811 Toxic solid, organic, n.o.s. 6.1 III 16 UN2811, Toxic solid, organic, n.o.s., 6.1, III
MEX UN-No Proper Shipping Name Hazard class Special Provisions Packing Group Description	UN2811 Toxic solid, organic, n.o.s. 6.1 223, 274 III UN2811, Toxic solid, organic, n.o.s., 6.1, III
ICAO (air) UN-No: Proper Shipping Name: Hazard class Packing Group: Special Provisions Description:	UN2811 Toxic solid, organic, n.o.s. 6.1 III A3, A5 UN2811, Toxic solid, organic, n.o.s., 6.1, III

ΙΑΤΑ **UN number** UN2811 **Proper Shipping Name:** Toxic solid, organic, n.o.s. Transport hazard class(es) 6.1 Ш Packing group ERG Code 6L **Special Provisions** A3, A5 **Description:** UN2811, Toxic solid, organic, n.o.s., 6.1, III IMDG **UN number** UN2811 Proper shipping name Toxic solid, organic, n.o.s. Transport hazard class(es) 6.1 Packing group Ш EmS-No F-A, S-A **Special Provisions** 223, 274 Marine pollutant NP1 UN2811, Toxic solid, organic, n.o.s., 6.1, III Description RID UN number UN2811 **Proper Shipping Name:** TOXIC SOLID, ORGANIC, N.O.S. Transport hazard class(es) 6.1 Packing group Ш **Classification code** T2 **Special Provisions** 274, 614 UN2811, TOXIC SOLID, ORGANIC, N.O.S., 6.1, III **Description:** Labels 6.1 ADR **UN** number UN2811 **Proper Shipping Name:** Toxic solid, organic, n.o.s. Transport hazard class(es) 6.1 Packing group Ш **Classification code** T2 **Tunnel restriction code** (E) 274, 614 **Special Provisions** UN2811, Toxic solid, organic, n.o.s., 6.1, III, (E) **Description:** Labels 6.1 ADN **UN/ID No** UN2811 Toxic solid, organic, n.o.s. Proper shipping name Transport hazard class(es) 6.1 **Packing Group** Ш Classification code T2 **Special Provisions** 274, 614, 802 Description UN2811, Toxic solid, organic, n.o.s., 6.1, III Hazard label(s) 6.1 **Equipment Requirements** PP, EP

## 15. Regulatory information

#### International Inventories

**TSCA** 

Complies

DSL/NDSL	Does not Comply
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product does not comply with china:
KECL	Does not Comply
PICCS	Does not Comply

#### This product does not comply with AICS

#### AICS

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

#### US Federal Regulations

#### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### 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).

#### **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.

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

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

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### 16. Other information

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and chemical properties -<u>HMIS</u> Health hazards \* Flammability 0 Physical hazards 0 Personal protection X *Chronic Hazard Star Legend* \*= *Chro* 

\* = Chronic Health Hazard

#### Key or legend to abbreviations and acronyms used in the safety data sheet

 Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

 TWA
 TWA (time-weighted average)
 STEL
 STEL (Short Term Exposure Limit)

 Ceiling
 Maximum limit value
 STEL
 STEL (Short Term Exposure Limit)

 Key literature references and sources for data used to compile the SDS
 Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database

 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 EVAluation (State Complexity)

Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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End of Safety Data Sheet