# **AK Scientific, Inc.**

Safety Data Sheet (United States) Trifluridine

1.Identification	
Product name:	Trifluridine
Catalog#:	J10508
IUPAC name:	2'-Deoxy-5-(trifluoromethyl)uridine
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

### 2.Hazard Identification:

### **GHS Classification (United States)**

Germ cell mutagenicity (Category 2), Carcinogenicity (Category 2), Reproductive toxicity (Category 2)

### Pictogram(s)



### Signal word:

Warning

### Hazard statement(s)

H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.

### Precautionary statement(s):

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 IF SWALLOWED: Call a poison center or doctor if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 IF EXPOSED or concerned: Get medical advice/attention.
- P322 Specific measures (see supplemental first aid instructions on this label).
- P330 Rinse mouth.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container to an approved waste disposal plant.

### Hazards not otherwise classified (HNOC) or not covered by GHS:

None

3.Composition/Information on Ingredients

Synonyms: Trifluorothymidine; 2'-Deoxy-5-trifluoromethyluridine; Trifluorothymine deoxyriboside;

	Viroptic
CAS#:	70-00-8
Purity:	99% (HPLC), powder
EC:	200-722-8

### 4. First Aid Measures

**General Information:** Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

**Skin contact:** Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

**Eye contact:** Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

**Ingestion:** Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

**Most important symptoms and effects, both acute and delayed:** No further information available. Please see sections 2 and 11.

**Indication of any immediate medical attention and special treatment needed:** No further information available.

### 5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Specific hazards arising from the chemical: Carbon oxides, Hydrogen fluoride, Nitrogen oxides. Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

**Methods and materials for containment and cleaning up:** Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

### 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

**Conditions for safe storage, including any incompatibilities:** Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Keep away from sources of ignition. ,Store long-term at -20°C.

#### 8. Exposure Controls/Personal Protection

#### **Exposure limits:**

OSHA PEL:	Not available.
NIOSH REL:	Not available.
ACGIH TLV:	Not available.

**Appropriate engineering controls:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

#### Personal protection

Eyes:	Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant
	safety glasses or goggles with side protection. A face shield may be appropriate in some
	workplaces. Use eyewear tested and approved under appropriate government standards
	such as OSHA 29 CFR 1910.133 or EU EN166.
Hands:	Wear gloves selected based on an evaluation of the possible hazards to hands and skin,
	the duration of use, the physical conditions of the workplace, and the chemical resistance
	and physical properties of the glove material.
Skin and body:	Protective clothing must be selected based on the hazards present in the workplace, the
•	physical environment, the duration of exposure, and other factors. No fabric can provide
	protection against all potential hazards; therefore it is important to select the appropriate
	protective clothing for each specific hazard. At the minimum, wear a laboratory coat and
	close-toed footwear.
Respiratory:	Respirators are not a substitute for accepted engineering control measures such as
- •	enclosure or confinement of the operation, general and local ventilation, and substitution
	of less toxic materials. When respiratory personal protective equipment is appropriate

cherosure of commement of the operation, general and local ventilation, and substitution
of less toxic materials. When respiratory personal protective equipment is appropriate
based on an assessment of respiratory hazards in the workplace, use a NIOSH- or
CEN-certified respirator.

9. Physical and Chemical Properties		
Physical State:	Solid	
Molecular Formula:	C10H11F3N2O5	
Molecular Weight:	296.20	
Odor:	Not available.	
pH:	Not available.	
Boiling Point Range:	Not available.	
Freezing/Melting Point:	186-193°C	
Flash Point:	Not available.	
Evaporation Rate:	Not available.	
Flammability(solid,gas):	Please see section 2.	
Explosive limits:	Not available.	
Vapor Pressure:	Not available.	
Vapor Density:	Not available.	
Solubility:	DMSO: 59mg/mL; H2O: 59mg/mL; EtOH: 59mg/mL	
Relative Density:	Not available.	
Refractive Index:	Not available.	
Volatility:	Not available.	
Auto-ignition Temperature:	Not available.	
Decomposition Temperature:	Not available.	
Partition Coefficient:	Not available.	

#### 10. Stability and Reactivity

Reactivity:

Not available.

Trifluridine

Chemical stability:	Stable under recommended temperatures and pressures.	
Possibility of hazardous reactions:	Not available.	
Conditions to avoid:	Dust generation.	
Incompatible materials:	Strong oxidizing agents.	
Hazardous decomposition products:	Carbon oxides, Hydrogen fluoride, Nitrogen oxides.	
11. Toxicological Information		
RTECS#	XP2087500	
Acute toxicity:	LD50 Intraperitoneal-Mouse-1931mg/kg; LD50	
	Intravenous-Rat-2946mg/kg; LD50	
-	Intravenous-Mouse-3381mg/kg	
Routes of exposure:	Inhalation,eye contact,skin contact,ingestion.	
	al Skin contact may result in inflammation characterized by	
and toxicological characteristics:	itching, scaling, reddening, blistering, pain or dryness. Eye	
	contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory	
	system. Overexposure may result in serious illness or death.	
	system. Overexposure may result in serious inness of deam.	
Carcinogenicity		
IARC: Not classified.		
NTP: Not listed. OSHA: Not listed.		
	eye is characterized by redness, watering, and itching. Skin	
	acterized by itching, scaling, reddening, or, occasionally,	
blistering.	determined by herming, searing, reddenning, or, occasionarry,	
Ű		
12. Ecological Information	Not available.	
Ecotoxicity: Persistence and degradability:	Not available.	
Bioaccumulative potential:	Not available.	
Mobility in soil:	Not available.	
Other adverse effects:	Not available.	
12 Dispessel Considerations		
13. Disposal Considerations	reperied on the second se	
Disposal of waste: Chemical waste g	generators must determine whether a discarded chemical is rdous waste. US EPA guidelines for the classification	
determination are	e listed in 40 CFR 261.3. Additionally, waste generators must	
consult state and local hazardous waste regulations to ensure complete and		
	ation. Observe all federal, state and local regulations when	
disposing of the s		
Disposal of packaging: Do not reuse con		
14. Transportation Information		
DOT (United States)		
UN number:	Not hazmat	
Proper shipping name:	Not available.	
T = 1		

Proper shipping name: Transport hazard class: Packing group:

## IATA

UN Number: Proper shipping name: Transport hazard class: Packing group:

15. Regulatory Information

Not nazmat Not available. Not available. Not available.

Not DG Not available. Not available. Not available.

### TSCA (United States)

This product is NOT on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

California Proposition 65:	Not Available	
NFPA Rating:	Health:	Not available.
C	Flammability:	Not available.
	Instability:	Not available.

#### 16. Additional Information

Revision Date: 04/24/2023 Printed Date: 04/24/2023

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.