

Safety Data Sheet 4H53301 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 01/19/2018

Substance name::5-FluorouracilAS No::51-1-8Yochuct code::44F33-301Tormula::C 44F37N202Synonyms::::Substance invite::C 44F37N202Synonyms:::::Laboratory chemicals Manufacture of substance or mixture and uses advised againstLac::::Laboratory chemicals Manufacture of substances Scientific research and developmentJacDetails of the supplier of the safety data sheet Scientific research and developmentSynOues Laboratories, Inc.::20.0 By 200 Wachua, FL 32615 - United States of America (Regel 442-0786 - F (369) 442-0787 Into Barmquestlabs.com - www.synquestlabs.com::1.4.Emergency unelphone number Emergency mules::2.1.Classification (OHS-US) Wachua, FL 32615 - United States of America (Regel 442-0786)::2.1.Classification of the substance or mixture2.1.Classification of the substance or mixture2.1.Classification (OHS-US) Walt Tox 3 (Ora) H315 - Causes serius regel irritation Stor 1813 - Suspected of causing cancer2.1.Labol elementsSHS-US labeling tacard pictograms (GHS-US):::2.1.Labol elementsSHS-US labeling tacard statements (GHS-US):::2.1.Classe skini irritation H315 - Causes skini	1 Identification	
Substance name : $: 5$ -Fluorouracil CAS No : $: 5121-3$ Product code : $: 41453-301$ Formula : $: C4H3FNR202$ Synoryms : $: 5$ -FU; 5-Fluoro-2.4.(1H.3H)pyimidinedione Other means of identification : MFCD00006018 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : Laboratory chemicals Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOpues Laboratories, Inc. PAO. Box 200 Auchoux, FL 32015 - United States of America Trades 442:0782-7097 Info Bisynquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number : (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(5) Identification 2.1. Classification of the substance or mixture Classification (CHS-US) Avata Tox 3 (Oral) H301 - Toxic if swallowed Sin Int 2 (Ma) Avatase respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements Classification (CHS-US) Signal word (CHS-US) : Danger Hazard statements (CHS-US) : Danger Hazard statements (CHS-US) : Classes shin irritation H335 - Suspected of causing cancer Signal word (CHS-US) : FDanger Hazard statements (CHS-US) : F201 - Othair special instructions before use H315 - Causes skin irritation H335 - Suspected of causing cancer Signal word (CHS-US) : F201 - Othair special instructions before use P202 - Do not leat, drink or smoke when using the product P31 - Void breathing dust, mist, spray P202 - Do not eat, drink or smoke when using the product P21 - Use only outdors or or using tert handling P27 - Use only outdors or or using tert handling P27 - Use only outdors or or using tert han		
CAS No : : 51-21-8 Product code : : 4153-3-01 Formula : : CH3FN202 Synoryms : : F-FU: 5-Fluoro-2,4-(1H,3H)pyrimidinedione Dther means of identification : : MFCD00006018 1.2. Relevant identification : : MFCD00006018 1.3. Details of the substance or mixture and uses advised against 1.3. Details of the supplier of the safety data sheet SynOutest Laboratories, Inc. P.O. Box 309 Machdar, IP. 32615 - United States of America 17. (386) 462-0788 - F (386) 462-7097 Info@synOutestLaboratories, Inc. P.O. Box 309 Machdar, IP. 32615 - United States of America 17. (386) 462-0789 - F (386) 462-7097 Info@synOutestLaboratories, Inc. P.O. Box 309 Machdar, IP. 32615 - United States of America 17. (386) 462-0789 - F (386) 462-7097 Info@synOutestLaboratories, Inc. P.O. Box 309 Machdar, IP. 32615 - United States of America 17. (386) 462-0789 - F (386) 462-7097 Info@synOutestLaboratories, Inc. P.O. Box 309 Machdar, IP. 32615 - United States of America 17. (386) 462-0789 - F (386) 462-7097 Info@synOutestLaboratories, Inc. P.O. Box 309 Machdar, IP. 32615 - United States of America 17. (386) 462-0789 - F (386) 462-7097 Info@synOutestLaboratories, Inc. P.O. Box 309 SECTION 2: Hazard(s) Identification EECTION 2: Identification Identification EECTION 2:	Product form	: Substance
Product code : 4/453-3-01 Formula : C4H3FN2O2 Synonyms : 5-FU; 5-FLuors-2,4-(1H,3H)pyrimidinedione Dater means of identification : MFCD00006018 1.2. Relevant identified uses of the substance or mixture and uses advised against Jase of the substance/mixture : Laboratory chemicals Manufacture of substances Scientific research and development 1.3. Details of the supplier of the safety data sheet SynOues Laboratories, Inc. P.O. Box 309 Nachua, FL 32E15 - United States of America (1.3. Details of the supplier of the safety data sheet SynOues Laboratories, Inc. P.O. Box 309 Nachua, FL 32E15 - United States of America (1.3. Details of the supplier of the safety data sheet SynOues Laboratories, Inc. P.O. Box 309 Nachua, FL 32E15 - United States of America (1.3. Classification of the substance or mixture Emergency tolephone number Emergency tolephone number Entergency on Mitter 1.4. Emergency States 1.5. Classification 1.6. Substance or mixture 1.6. Substance or mixture 1.7. H315 - Causes seriou series pristration Substance series series in triation Substance series in triation Substance series in triation Substance series series in triation Substance series	Substance name	: 5-Fluorouracil
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SynQuest Laboratories, Inc. P.O. Box 309 Machua, FL 32615 - United States of America (38) 462-0786 - F (386) 462-7097 T (386) 462-0786 - F (386) 462-7097 (844) 523-4086 (3E Company - Account 10069) SECTION 2: Hazard(s) identification Classification of the substance or mixture Classification of the substance or mixture Classification (CHS-US) Acute Tox: 3 (Oral) H 301 - Toxic if swallowed Skin Irrit. 2 Also - Causes skin irritation Carc. 2 Classes centione eye irritation Carc. 2 Causes serious eye irritation Carc. 2 Cause section 16 Cause Section 16 Cause Section 16 Cause Section 16 Classes Section 16		: Laboratory chemicals Manufacture of substances
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 H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation H351 - Suspected of causing cancer Precautionary statements (GHS-US) P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P261 - Avoid breathing dust, mist, 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 	Eye Irrit. 2A H319 - Causes serio Carc. 2 H351 - Suspected of STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	bus eye irritation f causing cancer espiratory irritation
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P301+P310 - If swallowed: Immediately call a poison center/doctor/ P302+P352 - If on skin: Wash with plenty of soap and water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathin	Eye Irrit. 2A H319 - Causes serio Carc. 2 H351 - Suspected of STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	 experimentation f causing cancer espiratory irritation : view of the spiratory irritation : view of the spiratory irritation : Danger : H301 - Toxic if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
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P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remo lenses, if present and easy to do. Continue rinsing	Eye Irrit. 2A H319 - Causes serio Carc. 2 H351 - Suspected of STOT SE 3 H335 - May cause re Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 sus eye irritation f causing cancer espiratory irritation i i irritation i i i i i i i i i i i i i i i i i i i

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	P312 - Ca P321 - Sp P330 - Ri P332+P3 P337+P3 P362+P3 P403+P2 P405 - St	13 - If exposed or concerne all a POISON CENTER or of pecific treatment (see suppli- inse mouth 13 - If skin irritation occurs: 13 - If eye irritation persists 64 - Take off contaminated 33 - Store in a well-ventilat tore locked up ispose of contents/containe	doctor/physician if emental first aid ir Get medical advid :: Get medical adv clothing and wash ed place. Keep co	you feel unwell istructions on this labe ce/attention ice/attention it before reuse intainer tightly closed	91)
2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS L	IS)				
Not applicable					
SECTION 3: Composition/inform	ation on ingre	edients			
3.1. Substance	: Mono-cor	actituant			
Substance type			0/		
Name 5-Fluorouracil		roduct identifier AS No) 51-21-8	% <= 100	Acute Tox. 3 (on (GHS-US) Oral). H301
(Main constituent)				Skin Irrit. 2, H3 Eye Irrit. 2A, H Carc. 2, H351 STOT SE 3, H	315 319
Full text of H-phrases: see section 16					
3.2. Mixture					
Not applicable					
SECTION 4: First aid measures					
4.1. Description of first aid measure		f accident or if you feel unw	vall sook modical	advica immodiatoly (sl	how the label
First-aid measures general		ssible). Move the affected p			
First-aid measures after inhalation		person to fresh air and kee n. Get immediate medical a		preathing. If not breath	ing, give artificial
First-aid measures after skin contact		h plenty of soap and water.			
First-aid measures after eye contact	present a	ely flush eyes thoroughly w ind easy to do. Continue rin	sing. Get immedia	te medical advice/atte	ention.
First-aid measures after ingestion		induce vomiting. Never give it with water. Get immediate			berson. Rinse
4.2. Most important symptoms and					
Symptoms/injuries		t important known symptom or in section 11.	s and effects are o	described in the labell	ing (see section
4.3. Indication of any immediate me	dical attention ar	nd special treatment need	ed		
Treat symptomatically.					
SECTION 5: Firefighting measur	es				
5.1. Extinguishing media					
Suitable extinguishing media		esistant foam. Carbon dioxi ite for surrounding fire.	de. Dry powder. V	/ater spray. Use exting	guishing media
5.2. Special hazards arising from th				· · · · · · · ·	
Fire hazard		decomposition generates: (-		
Explosion hazard	: Risk of ex container	xplosion if heated under con 's.	innement. Use wa	ter spray of tog for co	oung exposed
•					
		f fire: Evacuate area. Fight	fire remotely due 1	o the risk of explosion	ı.

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ccording to Federal Register / Vol. 77, No. 58 / Mo SECTION 6: Accidental release r	
	ve equipment and emergency procedures
Seneral measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.
5.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
2.2. Environmental precautions	
void release to the environment. Notify au	uthorities if product enters sewers or public waters.
3.3. Methods and material for conta	ainment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	ge
1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good
	ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
lygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
2.2. Conditions for safe storage, in	cluding any incompatibilities
echnical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
ncompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/	personal protection
8.1. Control parameters	
No additional information available	
3.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
land protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
ye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.
SECTION 9: Physical and chemi	cal properties
.1. Information on basic physical	and chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	· No data available

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Boiling point	: 190 - 200 °C (@ 0.1 mm Hg)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 130.0772 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity

Reactivity No additional information available

10.2. **Chemical stability**

10.1.

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

10.5. **Incompatible materials**

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity	: Oral: Toxic if swallowed.		
5-Fluorouracil (51-21-8)			
LD50 oral rat	230 mg/kg		
ATE US (oral)	230.000 mg/kg body weight		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Suspected of causing cancer.		
5-Fluorouracil (51-21-8)			
IARC group	3 - Not classifiable		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.		

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SECT	ON 12: Ecological information		
12.1.	Toxicity		
No addi	tional information available		
12.2.	Persistence and degradability		
No addi	tional information available		
12.3.	Bioaccumulative potential		
No addi	tional information available		
12.4.	Mobility in soil		
No addi	tional information available		
12.5.	Other adverse effects		

No additional information available

SECTION 13: Disposal considerati	ons
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT) : UN2811

: UN2811 Toxic solids, organic, n.o.s., 6.1, III

- : Toxic solids, organic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132

: 6.1 - Poison

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Symbols

- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name

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	Viarci120, 2012 / Itule		
DOT Special Provisions (49 CFR 172.102)	plastics (11H1, 1 21HZ2, 31HZ1 a 13H2, 13H3, 13H IP3 - Flexible IBt water-resistant li T1 - 1.5 178.274 TP33 - The porta powdered solids melting point wh or offered for tra tanks conforming packing group II stringent require pressure-relief d instruction and s tank special prov	I IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B ar 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11 H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). Cs must be sift-proof and water-resistant or must be fitted iner. 4(d)(2) Normal	11HZ2, 21HZ1, F); Flexible (13H1, with a sift-proof and or granular and tures above their stances transported ortation in portable substances of ank with more <i>vorking pressure</i> , nore stringent tank rdance with portable mperature material
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153		
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)			
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 200 kg		
DOT Vessel Stowage Location	: A - The material passenger vesse	I may be stowed "on deck" or "under deck" on a cargo ves el.	sel and on a
Other information	: No supplementa	ary information available.	
TDG			
No additional information available			
Transport by sea			
UN-No. (IMDG)	: 2811		
Proper Shipping Name (IMDG)	: TOXIC SOLID, O	ORGANIC, N.O.S.	
Class (IMDG)	: 6.1 - Toxic subst	tances	
Packing group (IMDG)	: III - substances	III - substances presenting low danger	
Air transport			
UN-No. (IATA)	: 2811		
Proper Shipping Name (IATA)	: Toxic solid, orga	anic, n.o.s.	
Class (IATA)	: 6.1 - Toxic Subs	stances	
Packing group (IATA)	: III - Minor Dange	er	
SECTION 15: Regulatory information			
15.1. US Federal regulations			
5-Fluorouracil (51-21-8)			
Listed on the United States TSCA (Toxic Substa Listed on the United States SARA Section 302 Subject to reporting requirements of United Stat	,		
SARA Section 302 Threshold Planning Quantity		500 - 10000 lb	
SARA Section 302 mileshold hanning quantity (1 Q)		1.0 %	
	uded from listing, o	on the United States Environmental Protection Agency Tox	ic
Chemical(s) subject to the reporting requiremen 1986 and 40 CFR Part 372.	ts of Section 313 or	r Title III of the Superfund Amendments and Reauthorization	on Act (SARA) of
5-Fluorouracil		CAS No 51-21-8 100	%
15.2. International regulations			
CANADA			
5-Fluorouracil (51-21-8)			
Listed and the Oracidian NDOL (New Demostic O			

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EU-Regulations

No additional information available

National regulations

5-Fluorouracil (51-21-8) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican national Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations		
5-Fluorouracil (51-21-8)		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List	

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

SECTION 16: Other information

Full text of H-phrases:

Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.				
Flammability	 * - Chronic (long-term) health effects may result from repeated overexposure : 0 Minimal Hazard - Materials that will not burn 				
	given				
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is				
HMIS III Rating					
	and are not reactive with water.				
NFPA reactivity	 : 0 - Materials that will not burn. : 0 - Normally stable, even under fire exposure conditions, 				
NFPA fire hazard					
	given.				
NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was				
H351	Suspected of causing cancer				
H335	May cause respiratory irritation				
H319	Causes serious eye irritation				
H315	Causes skin irritation				
H301	Toxic if swallowed				
STOT SE 3	Specific target organ toxicity (single exposure) Category 3				
Skin Irrit. 2	Skin corrosion/irritation Category 2				
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A				
Carc. 2	Carcinogenicity Category 2				
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3				

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SDS US (GHS HazCom 2012)

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