SECTION 1: Identification	
1.1. Identification	
Product name Other means of identification	 Fluorouracil Injection, USP 500 mg/10 mL single-dose vials individually boxed; NDC 55150-496-01 500 mg/10 mL, single-dose vials, 10 individually boxed vials in an outer carton; NDC 55150-496-10 1 g/20 mL single-dose vials individually boxed; NDC 55150-497-01 1 g/20 mL, single-dose vials, 10 individually boxed vials in an outer carton; NDC 55150-497-10 2.5 g/50 mL, Pharmacy Bulk Package, one box with one vial; NDC 55150-498-01 5 g/100 mL, Pharmacy Bulk Package, one box with one vial; NDC 55150-499-01
1.2. Relevant identified uses of the	substance or mixture and uses advised against
Use of the substance/mixture	: Pharmaceutical
1.3. Details of the supplier of the sa Eugia US LLC 279 Princeton Hightstown Road East Windsor, NJ 08520 270	fety data sheet
1.4. Emergency telephone number	
Emergency number	: 1-888-238-7880
SECTION 2: Hazard(s) identificat	ion
2.1. Classification of the substance	or mixture
Acute Tox. 4 (Oral)H302Skin Irrit. 2H315Eye Irrit. 2H319Muta. 1BH340Repr. 1BH360Full text of hazard classes and H-statement	s : see section 16
2.2. Label elements	
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	GHS07 GHS08 : Danger
Hazard statements (GHS US)	 H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H340 - May cause genetic defects H360 - May damage fertility or the unborn child
Precautionary statements (GHS US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. 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 water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P405 - Store locked up.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

- 3.1. Substances
- Not applicable
- 3.2. Mixtures

Name	Product identifier	%	GHS US classification
5-Fluorouracil	(CAS-No.) 51-21-8	5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Repr. 1B, H360 STOT SE 3, H335
Sodium hydroxide	(CAS-No.) 1310-73-2	≤ 1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTIO	ON 4: First aid measures			
4.1.	Description of first aid measures			
First-aid r	neasures after inhalation :	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
First-aid r	neasures after skin contact :	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.		
First-aid r	neasures after eye contact :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.		
First-aid r	neasures after ingestion :	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.		
4.2.	Most important symptoms and effects	, both acute and delayed		
Symptom	s/effects after inhalation :	May be irritating to respiratory system.		
Symptom	s/effects after skin contact :	Causes skin irritation.		
Symptom	s/effects after eye contact :	Causes serious eye irritation.		
Symptom	s/effects after ingestion :	Harmful if swallowed.		
4.3.	Indication of any immediate medical a	ttention and special treatment needed		
No additio	onal information available			
SECTION 5: Firefighting measures				
5.1.	Extinguishing media			
Suitable e	extinguishing media :	Use extinguishing media appropriate for surrounding fire.		
Unsuitabl	e extinguishing media :	None.		
5.2.	Special hazards arising from the subs	tance or mixture		
Fire haza	rd :	None known.		
5.3.	Advice for firefighters			
Protection	n during firefighting :	Firefighters should wear full protective gear.		
SECTIO	SECTION 6: Accidental release measures			
6.1.	Personal precautions, protective equi	oment and emergency procedures		
General r	neasures :	No special measures required.		
6.1.1.	For non-emergency personnel			

No additional information available

6.1.2.	For emergency responders	
No add	itional information available	
6.2.	Environmental precautions	
Preven	t entry to sewers and public waters.	
6.3.	Methods and material for contain	ment and cleaning up
For cor	atainment	: Stop the flow of material, if this is without risk.
6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Do not ingest. Avoid skin contact. Avoid eye contact. Wash thoroughly after handling.
7.2.	Conditions for safe storage, inclu	ding any incompatibilities
Storage	e conditions	: Store at 20° to 25°C (68° to 77°F)

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

5-Fluorouracil (51-21-8)		
Not applicable		
Sodium hydroxide (1310-73-2)		
ACGIH ACGIH OEL Ceiling 2 mg/m ³		2 mg/m ³
OSHA	OSHA PEL TWA	2 mg/m ³
IDLH	IDLH	10 mg/m³
NIOSH NIOSH REL (Ceiling) 2 mg/m³		2 mg/m ³

8.2. Exposure controls	
Appropriate engineering controls	: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection	: Use latex or rubber gloves.
Eye protection	: None required under normal product handling conditions.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	 If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and o	chemical properties
Physical state	: Liquid
Color	: Colorless ot yellow
Odor	: Odorless
Odor threshold	: No data available
рН	: 8.6 - 9.4
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactive	/ity				
I0.1. Reactivity					
No additional information available					
0.2. Chemical stability					
The product is stable at normal handling and storage conditions.					
10.3. Possibility of hazardous reaction	.3. Possibility of hazardous reactions				
Nill not occur.					
10.4. Conditions to avoid					
None.					
0.5. Incompatible materials					
None known.					
10.6. Hazardous decomposition products					
None known.					
SECTION 11: Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity	: Not classified				
Fluorouracil Injection, USP					
ATE US (oral)	2000 mg/kg body weight				
5-Fluorouracil (51-21-8)					
ATE US (oral)	100 mg/kg body weight				
ATE US (dermal) 1100 mg/kg body weight					
	······································				
Sodium hydroxide (1310-73-2)					
, , , , , , , , , , , , , , , , , , ,	140 – 340 mg/kg				
Sodium hydroxide (1310-73-2) LD50 oral rat LD50 dermal rabbit	140 – 340 mg/kg 1350 mg/kg				
Sodium hydroxide (1310-73-2) LD50 oral rat	140 – 340 mg/kg				

SECT	ON 12: Ecological information
12.1.	Toxicity

Serious eye damage/irritation

Germ cell mutagenicity

Reproductive toxicity

Aspiration hazard

STOT-single exposure

STOT-repeated exposure

Carcinogenicity

Respiratory or skin sensitization

: Causes serious eye irritation.

: May cause genetic defects.

: May damage fertility or the unborn child.

: Not classified

LC50 - Fish [1]	
	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
lo additional information available	
SECTION 13: Disposal consideratio 13.1. Waste treatment methods	ns
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international
	regulations.
SECTION 14: Transport information	
Department of Transportation (DOT)	
n accordance with DOT	
ransport document description (DOT)	: UN3082 Environmentally hazardous substances, liquid, n.o.s. (5-Fluorouracil), 9, III
JN-No.(DOT)	: UN3082
Proper Shipping Name (DOT)	: Environmentally hazardous substances, liquid, n.o.s.
	5-Fluorouracil
Class (DOT) Packing group (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 : III - Minor Danger
Hazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
OOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: 203 : 241

DOT Special Provisions (49 CER 172 102)		8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping
DOT Special Provisions (49 CFR 172.102)	:	 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 173 - An appropriate generic entry may be used for this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.
		IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
		TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a$ (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)		155
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)		
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	No Limit
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	:	171
Other information	:	No supplementary information available.
Air transport		
UN-No. (IATA)	:	3082
Proper Shipping Name (IATA)	:	Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	:	9 - Miscellaneous Dangerous Substances and Articles
Packing group (IATA)	:	III - Low danger

SECTION 15: Regulatory information

15.1. US Federal regulations

Sodium hydroxide (1310-73-2)		
Listed on the United States TSC	(Toxic Substances Control Act) inventory	
CERCLA RQ	1000 lb	
5.2. US State regulations		
5.2. US State regulations Sodium hydroxide (1310-73-2)		
	now List	
Sodium hydroxide (1310-73-2)		
Sodium hydroxide (1310-73-2) U.S Massachusetts - Right To	ostance List	

SECTION 16: Other information

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Full text of H-phrases:

xt of H-phrases:	
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Met. Corr. 1	Corrosive to metals Category 1
Muta. 1B	Germ cell mutagenicity Category 1B
Repr. 1B	Reproductive toxicity Category 1B
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H340	May cause genetic defects
H360	May damage fertility or the unborn child

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.