

Apollo Scientific

Apollo Scientific	Chemwatch Hazard Alert Code: 3
Part Number: PC0659	Issue Date: 15/03/2024
Version No: 1.2	Print Date: 15/03/2024
Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878)	S.REACH.GB-NIR.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

1.1. Product Identifier

Product name	5-Fluoro-1-(hexylcarbamoyl)uracil
Synonyms	Not Available
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Chemical formula	C11H16FN3O3
Other means of identification	Not Available
CAS number	61422-45-5*
EC number	689-431-9

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

Relevant identified uses	Use according to manufacturer's directions.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the manufacturer or supplier of the safety data sheet

Registered company name	Apollo Scientific			
Address	Whitefield Road, Bredbury SK62QR United Kingdom			
Telephone	01614060505			
Fax	0161 406 0506			
Website	http://www.apolloscientific.co.uk/			
Email	sales@apolloscientific.co.uk			

1.4. Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	Not Available
Other emergency telephone numbers	Not Available

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments ^[1]	H301 - Acute Toxicity (Oral) Category 3, H361 - Reproductive Toxicity Category 2	
Legend:	1. Classified by Chernwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

2.2. Label elements

Hazard pictogram(s)



Hazard statement(s)

H301	Toxic if swallowed.
H361	Suspected of damaging fertility or the unborn child.

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.		
P264	Wash all exposed external body areas thoroughly after handling.		
P270	Do not eat, drink or smoke when using this product.		
P280	Wear protective gloves and protective clothing.		

Precautionary statement(s) Response

P301+P310	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.			
P308+P313	IF exposed or concerned: Get medical advice/ attention.			
P330	Rinse mouth.			

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Material contains 5-Fluoro-1-(hexylcarbamoyl)uracil.

2.3. Other hazards

Inhalation may produce serious health damage*.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

SECTION 3 Composition / information on ingredients

3.1.Substances

1. CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	SCL / M-Factor	Nanoform Particle Characteristics
1. 61422-45-5* 2.689-431-9 3.Not Available 4.Not Available	100	5-Eluoro- 1-(hexylcarbamoyl)uracil	Acute Toxicity (Oral) Category 3, Reproductive Toxicity Category 2; H301, H361 ^[1]	Not Available	Not Available

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; * EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

3.2.Mixtures

See 'Information on ingredients' in section 3.1

SECTION 4 First aid measures

4.1. Description of first aid measures

Eye Contact	 If this product comes in contact with the eyes: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: ▶ Flush skin and hair with running water (and soap if available). ▶ Seek medical attention in event of irritation.
Inhalation	 If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS

should be provided. Further action will be the responsibility of the medical specialist.

F If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS.

Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise

INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11

4.3. Indication of any immediate medical attention and special treatment needed

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Þ Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- ۶ Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- ۶ Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- ٠ Drug therapy should be considered for pulmonary oedema.
- + Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications
- Treat seizures with diazepam.
- Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 Firefighting measures

5.1. Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

5.2. Special hazards arising from the substrate or mixture			
Fire Incompatibility None known.			
5.3. Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves in the event of a fire. Prevent, by any means available, spillage from entering drains or water courses. Use fire fighting procedures suitable for surrounding area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. 		
Fire/Explosion Hazard	 Non combustible. Not considered a significant fire risk, however containers may burn. May emit poisonous fumes. 		

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8

6.2. Environmental precautions

See section 12

6.3. Methods and material for containment and cleaning up

	Remove all ignition sources.
Minor Spills	Clean up all spills immediate

- Clean up all spills immediately.
- Avoid contact with skin and eyes.

	 Control personal contact with the substance, by using protective equipment. Use dry clean up procedures and avoid generating dust. Place in a suitable, labelled container for waste disposal.
Major Spills	

6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.
Fire and explosion protection	See section 5
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

7.2. Conditions for safe storage, including any incompatibilities

•	
Suitable container	 Lined metal can, lined metal pail/ can. Plastic pail. Polyliner drum. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. For low viscosity materials Drums and jerricans must be of the non-removable head type. Where a can is to be used as an inner package, the can must have a screwed enclosure. For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.): Removable head packaging; Cans with friction closures and low pressure tubes and cartridges may be used. Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages *. In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *. * unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.
Storage incompatibility	► Store at 2-8°C
Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)	Not Available
Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of	Not Available

7.3. Specific end use(s)

See section 1.2

SECTION 8 Exposure controls / personal protection

DNELs

8.1. Control parameters

Ingredient

PNECs Compartment

	2 5-Fluoro-1-(hexylcarbamoyl)uracil			Print Date: 15/0		
Ingredient	DNELs Exposure Pattern				PNECs Compartment	
Not Available	Not Available					
* Values for General Population	·			· · · ·		
Occupational Exposure Limits	; (OEL)					
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available	Not Available	Not Available	Not Available	Not Available	Not Available	Not Available
Not Applicable						
Emergency Limits						
ngredient	TEEL-1		TEEL-2		TEEL-3	
5-Fluoro- I-(hexylcarbamoyl)uracil	Not Available		Not Available		Not Available	
ngredient	Original IDLH			Revised IDLH		
-Fluoro- -(hexylcarbamoyl)uracil	Not Available			Not Available		
Occupational Exposure Bandi	ing					
ngredient	Occupational Ex	posure Band Rating		Occupational E	xposure Band Limit	
5-Fluoro- I -(hexylcarbamoyl)uracil	E			≤ 0.01 mg/m³		
Notes:	adverse health ou	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemi adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB, range of exposure concentrations that are expected to protect worker health.				
2. Exposure controls						
	be highly effective The basic types of	ols are used to remove a hazard in protecting workers and will ty i engineering controls are: which involve changing the way a solation of emission source whic	pically be independ	ent of worker interactio	ns to provide this high level he risk.	
	Enclosure and/or i 'adds' and 'remove ventilation system Employers may ne Local exhaust ven protection. Supplie An approved self o Provide adequate	es' air in the work environment. U must match the particular proce eed to use multiple types of contri- tilation usually required. If risk of ed-air type respirator may be req contained breathing apparatus (S ventilation in warehouse or close n turn, determine the 'capture vel	ss and chemical or rols to prevent empl overexposure exist uired in special circ SCBA) may be requ ed storage area. Air	ve or dilute an air cont contaminant in use. byee overexposure. s, wear approved resp umstances. Correct fit red in some situations contaminants generat	aminant if designed properly irator. Correct fit is essentia is essential to ensure adequ ed in the workplace possess	y. The design of a I to obtain adequate late protection. s varying 'escape'
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Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

8.2.2. Individual protection measures, such as personal protective equipment



Eye and face protection	 'Safety glasses with side shields Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]'
Skin protection	See Hand protection below
Hands/feet protection	The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed molstruiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: • frequency and duration of contact, • dequency and duration of contact, • dependent on usage. Important factors in the selection class of 5 or higher (breakthrough time greater than 240 minutes according to FN 374, ASNZS 2161:1.0 r antional equivalent) is recommended. • Other protocopy of the quentity repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, ASNZS 2161:1.0 r antional equivalent) is recommended. • Other only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 240 minutes according to EN 374, ASNZS 2161:1.0 r antional equivalent) is recommended. • Other material gloves should be replaced. • A defined in ASTM F-739-96 in any application, gloves are rated as: • Excellent when breakthrough time > 40 min • Second the replaced. • A defined in account when breakthrough time > 40 min • Second regulater of glove material. Therefore, glove selection should also be based on consideration of the glove will be dependent on the exact composition of the glove material, as the permeation efficiency of the glove will a tolicentessity on od predictor of
Body protection	See Other protection below
Other protection	 Overalls. Eyewash unit. Barrier cream. Skin cleansing cream.

Respiratory protection

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	P1 Air-line*	-	PAPR-P1 -
up to 50 x ES	Air-line**	P2	PAPR-P2
up to 100 x ES	-	P3	-
		Air-line*	-
100+ x ES	-	Air-line**	PAPR-P3

* - Negative pressure demand ** - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
 Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

8.2.3. Environmental exposure controls

See section 12

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Solid	Relative density (Water = 1)	1.26
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	110-111	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Nanoform Solubility	Not Available	Nanoform Particle Characteristics	Not Available
Particle Size	Not Available		

9.2. Other information

Not Available

SECTION 10 Stability and reactivity

10.1.Reactivity	See section 7.2
10.2. Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

SECTION 11 Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhaled	The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.
Ingestion	Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual.

Skin Contact	Skin contact is not thought to produce harmful health effects (as classified unde has been identified following exposure of animals by at least one other route an through wounds, lesions or abrasions. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, ma prior to the use of the material and ensure that any external damage is suitably	d the material may still produce health damage following entry ay produce systemic injury with harmful effects. Examine the skin
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.	
Chronic	Ample evidence from experiments exists that there is a suspicion this material directly reduces fertility. Based on experience with animal studies, exposure to the material may result in toxic effects to the development of the foetus, at levels which do not cause significant toxic effects to the mother.	
5-Fluoro- 1-(hexylcarbamoyl)uracil	TOXICITY Oral (Rabbit) LD50; 55 mg/kg ^[2]	IRRITATION Not Available
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. specified data extracted from RTECS - Register of Toxic Effect of chemical Sub- 	

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		_egenal	ot available or does not fill the criteria for classification le to make classification

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

11.2.2. Other information

See Section 11.1

SECTION 12 Ecological information

12.1. Toxicity

5-Fluoro-	Endpoint	Test Duration (hr)	Species	Value	Source
1-(hexylcarbamoyl)uracil	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:		oxicity Data 2. Europe ECHA Regist Toxicity Data 5. ECETOC Aquatic Ha Vendor Data		0	

DO NOT discharge into sewer or waterways.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

F		
Ingredient	Bioaccumulation	
	No Data available for all ingredients	
12.4 Mahiliky in sail		
12.4. Mobility in soil		
Ingredient	Mobility	

12.5. Results of PBT and vPvB assessment

No Data available for all ingredients

	Р	В	т
Relevant available data	Not Available	Not Available	Not Available
PBT	×	×	×
vPvB	×	×	×
PBT Criteria fulfilled?			No

Continued...

No

5-Fluoro-1-(hexylcarbamoyl)uracil

vPvB

Version No: 1.2

12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible. Otherwise: If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill. Where possible retain label warnings and SDS and observe all notices pertaining to the product. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

HAZCHEM

2X

Labels Required

	6
Marine Pollutant	NO

Land transport (ADR-RID)

14.1. UN number or ID number	2811		
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.	O.S.	
14.3. Transport hazard	Class 6.1		
class(es)	Subsidiary Hazard Not A	Applicable	
14.4. Packing group	Ш		
14.5. Environmental hazard	Not Applicable		
	Hazard identification (Kemle	er) 60	
	Classification code	T2	
14.6. Special precautions for	Hazard Label	6.1	
user	Special provisions	274 614	
	Limited quantity	500 g	
	Tunnel Restriction Code	D/E	

Air transport (ICAO-IATA / DGR)

14.1. UN number	2811			
14.2. UN proper shipping name	Toxic solid, organic, n.o.s. *			
14.3. Transport hazard	ICAO/IATA Class ICAO / IATA Subsidiary Hazard	6.1 Not Applicable		
class(es)	ERG Code	6L		
14.4. Packing group	II			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for	Special provisions		A3 A5	
user	Cargo Only Packing Instructions	Cargo Only Packing Instructions		

Cargo Only Maximum Qty / Pack	100 kg
Passenger and Cargo Packing Instructions	669
Passenger and Cargo Maximum Qty / Pack	25 kg
Passenger and Cargo Limited Quantity Packing Instructions	Y644
Passenger and Cargo Limited Maximum Qty / Pack	1 kg

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	2811		
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.		
14.3. Transport hazard class(es)	IMDG Class 6.1 IMDG Subsidiary Hazard Not Applicable		
14.4. Packing group	II		
14.5 Environmental hazard	Not Applicable		
14.6. Special precautions for user	EMS NumberF-A , S-ASpecial provisions274Limited Quantities500 g		

Inland waterways transport (ADN)

14.1. UN number	2811		
14.2. UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.		
14.3. Transport hazard class(es)	6.1 Not Applicable		
14.4. Packing group	II		
14.5. Environmental hazard	Not Applicable		
	Classification code	T2	
14.6. Special precautions for	Special provisions	274; 614; 802	
user	Limited quantity	500 g	
	Equipment required	PP, EP	
	Fire cones number	2	

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
5-Fluoro- 1-(hexylcarbamoyl)uracil	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
5-Fluoro- 1-(hexylcarbamoyl)uracil	Not Available

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

5-Fluoro-1-(hexylcarbamoyl)uracil is found on the following regulatory lists

Not Applicable

Additional Regulatory Information

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

Information according to 2012/18/EU (Seveso III):

Seveso Category	Not Available
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15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Canada - DSL	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Canada - NDSL	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
China - IECSC	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Europe - EINEC / ELINCS / NLP	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Japan - ENCS	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Korea - KECI	Yes	
New Zealand - NZIoC	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Philippines - PICCS	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
USA - TSCA	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Taiwan - TCSI	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Mexico - INSQ	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Vietnam - NCI	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Russia - FBEPH	No (5-Fluoro-1-(hexylcarbamoyl)uracil)	
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.	

SECTION 16 Other information

Revision Date	15/03/2024
Initial Date	16/03/2024

Full text Risk and Hazard codes

SDS Version Summary

Version	Date of Update	Sections Updated
0.2	15/03/2024	Hazards identification - Classification, Composition / information on ingredients - Ingredients

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered. For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

Definitions and abbreviations

- PC TWA: Permissible Concentration-Time Weighted Average
- PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit,
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances

- TSCA: Toxic Substances Control Act
 TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
 FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Classification Procedure	
Acute Toxicity (Oral) Category 3, H301	Expert judgement	
Reproductive Toxicity Category 2, H361	Expert judgement	

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