



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

CAS:

1920 - Mitomycin C ≥97% RTECS: CN0700000 Mitomycin 50-07-7

Other means of identification:

Non-applicable

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

Relevant uses: For use in laboratory and production. Not for human or animal use. . For professional users only.

Uses advised against (Professional users): Not for human or animal use

1.3 Details of the supplier of the safety data sheet:

GERBU Biotechnik GmbH	
69123 Heidelberg - Germany	
Phone: +49 6221 7264167	
safety@gerbu.de	
www.gerbu.de	

1.4 Emergency telephone number: Toxicological Information Freiburg +49 (0) 761 19240

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GBCLP Regulation:

Classification of this product has been carried out in accordance with GB CLP Regulation. Acute Tox. 2: Acute toxicity if swallowed, Category 2, H300 Carc. 2: Carcinogenicity, Category 2, H351

2.2 Label elements:

GBCLP Regulation:





Hazard statements:

Acute Tox. 2: H300 - Fatal if swallowed. Carc. 2: H351 - Suspected of causing cancer. Precautionary statements:

P201: Obtain special instructions before use.

P264: Wash thoroughly after use. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P330: Rinse mouth.

P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Chemical description: Chemical substance

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

- CONTINUED ON NEXT PAGE -

Page 1/9





SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification	Concentratio
CAS: 50-07-7	Mitomycin Acute Tox. 2: H300; Carc. 2: H351 - Danger	75 - <100 %
	Acute Tox. 2: H300; Carc. 2: H351 - Danger rmation on the hazards of the substances consult sections 11, 12 and 16.	
Minduro		

3.2 Mixture:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,..), seek medical advice with this Safety Data Sheet

By eye contact:

This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes. By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Induce vomiting (ONLY IF PERSON IS CONSCIOUS!) and then ingest large quantities of liquid to dilute the toxin. Keep the person affected at rest.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES





SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

- 6.1 Personal precautions, protective equipment and emergency procedures:
 - For non-emergency personnel:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and material for containment and deaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

- 7.2 Conditions for safe storage, including any incompatibilities:
 - A.- Technical measures for storage

Minimum Temp.: 8 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace: Nuisance dust: Inhalable dust 10 mg/m3 // Respirable dust 4 mg/m3

DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

PNEC:

Non-applicable

8.2 Exposure controls:



C.-

Safety data sheet According to UK REACH

1920 - Mitomycin C ≥97% RTECS: CN0700000



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection, ...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
Specific protection	for the hands	
Pictogram	PPE	Remarks

	Mandatory hand protection	NON-disposable chemical protective gloves	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin.
D	Eye and face prote	ection	

Pictogram	PPE	Remarks
Mandatoryface protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remark	<s< td=""></s<>	
Mandatory complete body protection	Disposable clothing for protection against chemical risks	inst For professional use only. Clean periodically according to the mar instructions.		
Mandatoryfoot protection	Safety footwear for protection against chemical risk	nical Replace boots at any sign of deterioration.		
- Additional emergency measures				
Emergency mea	asure Standards	Emergency measure	Standards	

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

*Not relevant due to the nature of the product, not providing information property of its hazards.





SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

SEC	TION 9: PHYSICAL AND CHEMICAL PROPERT	IES (continued)			
	Physical state at 20 ºC:	Solid			
	Appearance:	Not available			
	Colour:	Ultramarine			
	Odour:	Not available			
	Odour threshold:	Non-applicable *			
	Volatility:				
	Boiling point at atmospheric pressure:	532 °C			
	Vapour pressure at 20 ºC:	Non-applicable *			
	Vapour pressure at 50 °C:	Non-applicable *			
	Evaporation rate at 20 ºC:	Non-applicable *			
	Product description:				
	Density at 20 ºC:	1900 kg/m³			
	Relative density at 20 ºC:	1.9			
	Dynamic viscosity at 20 ºC:	Non-applicable *			
	Kinematic viscosity at 20 ºC:	Non-applicable *			
	Kinematic viscosity at 40 ºC:	Non-applicable *			
	Concentration:	Non-applicable *			
	pH:	Non-applicable *			
	Vapour density at 20 ºC:	Non-applicable *			
	Partition coefficient n-octanol/water 20 °C:	-0.4			
	Solubility in water at 20 ºC:	5 kg/m³			
	Solubility properties:	Non-applicable *			
	Decomposition temperature:	Non-applicable *			
	Melting point/freezing point:	360 ºC			
	Flammability:				
	Flash Point:	276 ºC			
	Flammability (solid, gas):	Non-applicable *			
	Autoignition temperature:	Non-applicable *			
	Lower flammability limit:	Non-applicable *			
	Upper flammability limit:	Non-applicable *			
	Explosive (Solid):				
	Lower explosive limit:	Non-applicable *			
	Upper explosive limit:	Non-applicable *			
	Particle characteristics:				
	Median equivalent diameter:	Non-applicable *			
9.2	Other information:				
	Information with regard to physical hazard classes:				
	Explosive properties:	Non-applicable *			
	Oxidising properties:	Non-applicable *			
	Corrosive to metals:	Non-applicable *			
	Heat of combustion:	Non-applicable *			
	Aerosols-total percentage (by mass) of flammable components: Other safety characteristics:	Non-applicable *			
	Surface tension at 20 °C:	Non-applicable *			
	*Not relevant due to the nature of the product, not providing informa				
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Refraction index:

Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Notapplicable	Notapplicable	Notapplicable	Notapplicable	Notapplicable
10.5 Incompatible materials:					
	Acids	Water	Oxidising materials	Combustible materials	Others
	Avoid strong acids	Notapplicable	Avoid direct impact	Notapplicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Can be fatal if consumed. For more information see section 2.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.

- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.

- Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

IARC: Mitomycin (2B)

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:





SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as
 - it does not contain substances classified as hazardous for this effect. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as
 - hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Product-specific toxicological information:

 Acute toxicity
 Genus

 LD50 oral
 30 mg/kg
 Rat

 Specific toxicology information on the substances:
 Statement

Identification	Ad	cute toxicity	Genus
Mitomycin	LD50 oral	5 mg/kg	
CAS: 50-07-7	LD50 dermal	Non-applicable	
	LC50 inhalation	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Not available

- 12.2 Persistence and degradability: Not available
- 12.3 Bioaccumulative potential:
 - Not available
- 12.4 Mobility in soil: Not available
- 12.5 Results of PBT and vPvB assessment: Product fails to meet PBT/vPvB criteria
- 12.6 Other adverse effects: Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Type of waste:

HP6 Acute Toxicity, HP7 Carcinogenic

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.



Safety data sheet According to UK REACH

1920 - Mitomycin C ≥97% RTECS: CN0700000



SECTION 13: DISPOSAL CONSIDERATIONS (continued)

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dar	ngerou	s goods by land:		
With regard to ADR 2021 and RID 2021:				
Â	14.1	UN number:	UN3462	
	14.2	UN proper shipping name:	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Mitomycin)	
	14.3	Transport hazard class(es):	6.1	
6		Labels:	6.1	
	14.4	Packing group:	II	
	14.5	Environmental hazards:	No	
	14.6	Special precautions for user		
		Tunnel restriction code:	C/E	
		Physico-Chemical properties:	see section 9	
		Limited quantities:	500 g	
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	
Transport of dar	ngerou	s goods by sea:		
With regard to IM	DG 40-3	20:		
	14.1	UN number:	UN3462	
	14.2	UN proper shipping name:	TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Mitomycin)	
	14.3	Transport hazard class(es):	6.1	
		Labels:	6.1	
5	14.4	Packing group:	II	
	14.5	Marine pollutant:	No	
	14.6	Special precautions for user		
		Special regulations:	210, 274	
		EmS Codes:	F-A, S-A	
		Physico-Chemical properties:	see section 9	
		Limited quantities:	500 g	
		Segregation group:	Non-applicable	
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	
Transport of dar	ngerou	s goods by air:		
With regard to IA	FA/ICA	D 2022:		
	14.1	UN number:	UN3462	
	14.2		TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Mitomycin)	
6	14.3	Transport hazard class(es):	6.1	
		Labels:	6.1	
	14.4	33 1		
		Environmental hazards:	No	
	14.0	Special precautions for user		
		Physico-Chemical properties:	see section 9	
	14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable	







SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable - Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
H2	ACUTE TOXIC	50	200

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ...):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended) EH40/2005 Workplace exposure limits.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets: This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020. Texts of the legislative phrases mentioned in section 2: H300: Fatal if swallowed. H351: Suspected of causing cancer. Texts of the legislative phrases mentioned in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 GBCLP Regulation: Acute Tox. 2: H300 - Fatal if swallowed. Carc. 2: H351 - Suspected of causing cancer. Advice related to training: Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product. Principal bibliographical sources: http://echa.europa.eu http://eur-lex.europa.eu Abbreviations and acronyms: ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LogPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this productare not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.