

Version No: 1

Issue date: 30/APR/2024 Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Revision date: Not Applicable

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

1.1. Product Identifier

Product name	DNase I
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses	Laboratory use.
Uses advised against	Not Applicable

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

Registered company name	CleanNA		
Address	Coenecoop 75, 2741 PH, Waddinxveen, The Netherlands		
Telephone	+31 (0) 182 22 33 50		
Fax	+31 (0) 182 22 33 98		
Website	www.cleanna.com		
Email	info@cleanna.com		
Email	mo@deanna.com		

1.4. Emergency telephone number

Emergency telephone	112 (European emergency number)
numbers	

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1. Classification of the substa	
Classification according to regulation (EC) No 1272/2008 [CLP] and amendments	Not Applicable
2.2. Label elements	
Hazard pictogram(s)	Not Applicable
Signal word	Not Applicable
Not Applicable Supplementary statement(s) Not Applicable Precautionary statement(s) Prev Not Applicable	vention
Precautionary statement(s) Res	ponse
Not Applicable	
Precautionary statement(s) Stor	rage
Not Applicable	
Precautionary statement(s) Dis	posal
Not Applicable	

2.3 Other hazards

Cumulative effects may result following exposure*. Possible respiratory and skin sensitizer *

Reach - Art. 57 - 59: the mixture does not contain Substances of Very High Concern 9SVHC) at the SDS print date

SECTION 3. Composition / information on ingredients

3.1 Substances

See 'Composition on ingredients' in Section 3.2

3.2 Mixtures

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. 9003-98-9 2. 232-667-0 3. Not Available 4. Not Available	0.1 - 1	Deoxyribonuclease	Not Applicable	Not Available	Not Available
Legend:	Legend: 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				

SECTION 4. First aid measures

4.1. Description of first aid measures				
Eye Contact	Eye Contact If this product comes in contact with the eyes: - Wash out immediately with water. - If irritation continues, seek medical attention - Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.			
Skin Contact	If skin contact occurs: Immediately remove all contaminated clothing, including footwear. 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	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. 			

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

Treat symptomatically

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

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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 event of fire Prevent, by any means available, spillage from entering drains or water course. Use firefighting 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 Decomposition may products toxic fumes of: Hydrogen cyanide Nitrogen oxides (NOx) May emit corrosive 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

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite Wipe up. Place in a suitable, labelled container for waste disposal. 			
Major Spills	Moderate hazard. - Clear area of personnel and move upwind. - Alert Fire Brigade and tell them location and nature of hazard. - Wear breathing apparatus plus protective gloves. - Prevent, by any means available, spillage from entering drains or water course. - Stop leaks if safe to do so - Contain spill with sand, earth or vermiculite - Collect recoverable product into labelled containers for recycling - Neutralize / decontaminate residue (see Section 13 for specific agent) - Collect sloid residues and seal in labelled drums for disposal - Wash area and prevent runoff into drains - After clean up operations, decontaminate and launder all protective clothing and equipment before storing and reuse - If contamination of drains or waterways occurs, advise emergency services.			

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. Avoid smoking, naked lights or ignition sources. 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. 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. DO NOT allow clothing wet with material to stay in contact with skin
Fire and explosion protection	See section 5
Other information	None known

7.2. Conditions for safe storage, including any incompatibilities

Suitable container	 Polyethylene or polypropylene container Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks
Storage incompatibility	It is suggested that crystalline proteins are explosive as evidenced by the easily induced shattering of microcrystals. This may be a consequence of the implosive collapse of a metastable ordering or molecules (Bretherick's Handbook of Reactive Chemical Hazards). A study was performed to obtain quantitative data on the nature and yields of oxidation products formed by a prototypic oxidant system (HO / O2) on small peptides, including Val-Gly-Val-Ala-Pro-Gly. Study results indicated that hydroperoxide formation occurred non-randomly (Pro > Val > Ala > Gly) an that the formation of hydroperoxide was inversely related to carbonyl yields (both peptide-bound and released). Multiple alcohols were generated at both side-chair and backbone sites. Summation of the product concentrations provided clear evidence for the occurrence of chain reactions in peptides exposed to HO / C with overall product yields exceeding that of the initial HO generated.
Hazard categories in accordance with Regulation (EC) No 1272/2008	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

8.1. Control parameters

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment	
Deoxyribonuclease I	Not Available	0.89 mcg/L	(Water (Fresh))
		0.089 mcg/L	(Water – Intermittent release)
		8.9 mcg/L	(Water (Marine))
		0.12 mcg/kg soil dw	(Soil)
		65000 mcg/L	(STP)

* Values for General Population

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

L	Emergency	Limits
	Linergency	Linna

Ingredient	TEEL-1	TEEL-2	TEEL-3
DNase I	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
deoxyrbonuclease I	Not Available	Not Available

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8.2. Exposure controls Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying 'escape' velocities which, in turn, determine the 'capture velocities' of fresh circulating air required to effectively remove the contaminant. Type of contaminant Air Speed Solvent, vapours, degreasing etc. evaporating from tank (in still air) 0.25 - 0.5 m/s (50 - 100 f/min) Aerosols, fumes form pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) 0.5 - 1 m/s (100 - 200 f/min) 8.2.1 Appropriate engineering Direct spray, spray painting in shallow boots, drum filling, conveyer loading, crusher debts, gas discharge 1 - 2.5 m/s (200 - 500 f/min) controls (active generation into zone of rapid air motion) Grinding, abrasive blasting, tumbling, high speed generated dusts (released at high velocity into zone of very w.5 - 10 m/s (500 - 200 f/min) high rapid air motion) Within each range the appropriate value depends to: Lower end of range Upper end of range 1: Room air currents minimal of favourable to capture 1: Disturbing room air currents 2: Contaminants of high toxicity 2: Contaminants of low toxicity or of nuisance value only 3: Intermittent, low production 3: High Production, heavy use 4: Large hood or large air mass in motion 4: Small hood - local control only 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. Personal 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 Eve and face protection 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

	- Wear chemical protective gloves, e.g. PVC - Wear safety footwear of safety gumboot, e.g. Rubber
	NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken when removing gloves and other protective equipment, to avoid all possible skin contact.
	NOTE: Contaminated leather items such as shoes, belts and watch-bands should be removed and destroyed.
	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 cannot 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 moisturiser 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,
	 chemical resistance of glove material, glove thickness and dexterity
Hand / feet protection	Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, MS/NZS 2161.10.1 or national equivalent) is recommended.
	374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
	Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as:
	· Excellent when breakthrough time > 480 min · Good when breakthrough time > 20 min
	· Fair when breakthrough time < 20 min
	 Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.
	It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.
	Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical
	data should always be taken into account to ensure selection of the most appropriate glove for the task.
	Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
	 Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential
	Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed
	moisturiser is recommended.
Body protection	See Other protection below
	- Overalls. - P.V.C apron.
Other protection	- F. V. Capton. - Barrier cream. - Skin cleansing cream. - Eye wash unit.

Recommended material(s) GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection: DNase I

Material	Index	
NATURAL RUBBER	Α	Best selection
NATURAL +NEOPRENE	A	Best selection
NITRILE	A	Best selection

NOTE:

As a series of factors influence the actual performance of the glove, a final selection must be based on detailed observation. * Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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	Liquid	Relative density (Water = 1)	Not Available
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)	Not Available	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 Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	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 toxicological effects Inhaled The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Ingestion The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. Skin Contact Skin contact is not thought to have harmful health effects (as classified under EC Directives). The material may still produce health damage following entry through wounds, lesions or abrasions. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. Eye Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

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Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models). Nevertheless exposure by all routes should be minimised as a matter of course. Dust produced by proteins can sometimes sensitise workers like other foreign bodies. Symptoms include asthma appearing soon after exposure, with wheezing, narrowing of the airways and breathing difficulties.		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
DNase I	Not Available	Not Available	
	TOXICITY	IRRITATION	
deoxyribonuclease I	Not Available	Eye: no adverse eff	fect observed (not irritating) [1]
		Skin: no adverse ef	fect observed (not irritating) ^[1]
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
Deoxyribonuclease A	No significant acute toxological data identified i literature s	earch.	
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
			ther not available or does not fill the criteria for classification vailable to make classification

11.2. Information on other hazards

1. Endocrine Disruption Properties Not Available

2. Other Information

See Section 11.1

SECTION 12. Ecological information

12.1 Toxicity

	Endpoint	Test duration (hr)	Species	Value	Source
DRNase I	Not available	Not available	Not available	Not available	Not available
	Endpoint	Test duration (hr)	Species	Value	Source
	NOEC(ECx)	72	Algae or other aquatic plants	5.3 mg/l	2
Ribonuclease A	EC50	72	Algae or other aquatic plants	59 mg/l	2
	EC50	48	Crustacea	1546 mg/l	2
Leger		-	urope ECHA Registered Substances - Ecotoxicol ECETOC Aquatic Hazard Assessment Data 6. N		•
	- Bioconcentra	tion Data 8. Vendor Data			

Proteins are generally easily biodegradable.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available	No Data available

12.3. Bio accumulative potential

Ingredient	Bioaccumulation
	No Data available
12.4. Mobility in soil	
Ingredient	Mobility
	No Data available

12.5. Results of PBT and vPvB assessment

	Ρ	В	т	
Relevant available data	Not Available	Not Available	Not Av	ailable
PBT	×	×	X	
vPvB	×	×	X	
PBT Criteria fulfilled?	No			
vPvB				No

12.6. Endocrine Disruption Properties

Not Available

12.7. Other adverse effects

Not Available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

	 Containers may still present a chemical hazard/ danger when empty. Return to supplier for reuse/ recycling if possible.
	Otherwise: If container cannot 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.
Product / Packaging disposal	Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. A Hierarchy of Controls seems to be common - the user should investigate: - Reduction - Reuse - Recycling - Disposal (if all else fails)
	 This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
Waste treatment options	Not Available
Sewage disposal options	Not Available

SECTION 14 Transport information

Labels Required				
Marine Pollutant	NO			
Land transport (ADR): NOT R	EGULATED FOR TRANSPO	RT OF DANGEROUS GOODS		
14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable	Not Applicable		
14.3. Transport hazard class(es)	Class Not Applicable Sub risk Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Hazard identification (Kemler) Classification code Hazard Label Special provisions Limited quantity	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable		
	Tunnel Restriction Code	Not Applicable		

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class	Not Applicable		
14.3. Transport hazard	ICAO / IATA Sub risk	Not Applicable		
class(es)	ERG Code	Not Applicable		
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions		Not Applicable	
	Cargo Only Packing Instructions		Not Applicable	
	Cargo Only Maximum Qty / Pack		Not Applicable	
14.6. Special precautions for	Passenger and Cargo Packing Instructions		Not Applicable	
user	Passenger and Cargo Maximum Qty / Pack		Not Applicable	
	Passenger and Cargo	Limited Quantity Packing Instructions	Not Applicable	
	Passenger and Cargo I	Limited Maximum Qty / Pack	Not Applicable	

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Not Applicable		
IMDG Class Not Applicable		
IMDG Sub risk Not Applicable		
Not Applicable		
Not Applicable		
MS Number Not Applicable		
pecial provisions Not Applicable		
mited Quantities Not Applicable		
IN ot ot		

Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not applicable	Not Applicable
14.4. Packing group	Not applicable	
14.5. Environmental hazard	Not applicable	
	Classification code	Not Applicable
	Special provisions	Not Applicable
14.6 Special precautions for user	Limited quantity	Not Applicable
	Equipment required	Not Applicable
	Fire cones number	Not Applicable

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

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

Product name	Group	
Deoxyribonuclease I	Not Available	
14.9. Transport in bulk in	accordance with the ICG Code	
Product name	Group	
Deoxyribonuclease I	Not Available	

SECTION 15. Regulatory information

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

Deoxyribonuclease I is found on the following regulator lists

. ,	
Europe EC Inventory	European Union – European Inventory of Existing Commercial Chemical Substances (EINICS)

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.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

ECHA SUMMARY

Ingredient	CAS number Index No. ECHA Dossier		sier	
deoxyribonuclease I	9003-98-9	Not Available	Not Availab	le
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)		Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Resp. Sens. 1		GHS08, Dgr	H334
2	Resp. Sens. 1. Skin Irrit. 2 ; Eye Irrit. 2 ; STOT SE 3		GHS08, Dgr	H317, H334
Harmonisation Code	1 = The most prevalent classification 2 = The most sever classification			

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	No (deoxyribonuclease I)
Canada - NDSL	Yes
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (deoxyribonuclease I)
Korea - KECI	Yes
New Zealand - NZloC	Yes
Philippines - PICCS	No (deoxyribonuclease I)
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (deoxyribonuclease I)
Vietnam - NCI	No (deoxyribonuclease I)
Russia - FBEPH	No (deoxyribonuclease I)
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

Full text Risk and Hazard codes H317 May causes an allergic skin reaction

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

Version Summary

Version	Date of Update	Sections Updated
1	30/APR/2024	Initial version

Other information

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