# Glentham

## Safety Data Sheet

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#### According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

#### Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

1.

GK5139	
N-Vinyl-2-pyrrolidone	
88-12-0	
201-800-4	
liquid, substance	
are exempted from registrat	available for this substance as the substance or its uses on, the annual tonnage does not require a registration or for a later registration deadline.
	<ul> <li>88-12-0</li> <li>201-800-4</li> <li>liquid, substance</li> <li>A registration number is not are exempted from registrati</li> </ul>

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

PC21: Laboratory chemicals.

#### 1.3 Details of the supplier of the safety data sheet

: Glentham Life Sciences Ltd	Telephone	:	+44 (0) 1225 667 798
Unit 5 Leafield Way	Fax	:	+44 (0) 2033 978 909
Corsham SN13 9SW	Email	:	info@glentham.com
United Kingdom	Web	:	www.glentham.com
	Unit 5 Leafield Way Corsham SN13 9SW	Unit 5 Leafield Way Fax Corsham SN13 9SW Email	Unit 5 Leafield WayFaxCorsham SN13 9SWEmail

#### 1.4 Emergency telephone number

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H302	Acute Tox. 4
H312	Acute Tox. 4
H318	Eye Dam. 1
H332	Acute Tox. 4
H335	STOT SE 3
H336	STOT SE 3
H351	Carc. 2
H373	STOT RE 2

#### 2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

#### Pictograms



Signal words	Danger
Hazard statements	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.



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Other hazards	
P264	Do not breathe fume.
P310	easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P302+P350 P305+P351+P338	IF ON SKIN: Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

#### PBT

2.3

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.1 Substances

Name	Identifier	%	Classification
N-Vinyl-2-pyrrolidone	CAS: 88-12-0	99.0%	H302, Acute Tox. 4
	EC: 201-800-4		H312, Acute Tox. 4
	REACH: Not		H318, Eye Dam. 1
	applicable		H332, Acute Tox. 4
			H335, STOT SE 3
			H336, STOT SE 3
			H351, Carc. 2
			H373, STOT RE 2

#### 4. First aid measures

#### 4.1 Description of first aid measures

•	
Skin contact	Consult a doctor. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Ingestion	Consult a doctor. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If conscious give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.
Inhalation	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.
lost important sy	ymptoms and effects, both acute and delayed
Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be pain and redness.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	Drowsiness or mental confusion may occur. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.

#### Delayed / immediate effects Drowsiness or mental confusion may occur. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.

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

Immediate / special treatment

4.2



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Do not induce vomiting. Eye bathing equipment should be available on the premises.

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

#### 5.2 Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. In combustion emits toxic fumes.

#### 5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

#### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Notify the police and fire brigade immediately. Refer to section 8 of SDS for personal protection details.

#### 6.2 Environmental precautions

Do not discharge into drains or rivers.

#### 6.3 Methods and material for containment and cleaning up

#### Clean-up procedures

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4 Reference to other sections

Refer to section 8 of SDS.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

#### Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Do not handle in a confined space. Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Avoid contact with water or humidity. Keep container tightly closed. Store in cool, well ventilated area.

#### 7.3 Specific end use(s)

No data available.

#### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits

No workplace exposure limit control parameters set

#### 8.2 Exposure controls

Engineering measures	Ensure there is exhaust ventilation of the area. Ensure there is sufficient ventilation of the area.
Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.

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	Eye protection	Tightly fitting safety goggles	s. Ensure eye bath is to hand. Safety glasses.
	Skin protection	Protective clothing.	
	Physical and chemic	al properties	
	Information on basic	physical and chemical proper	ties
	Physical state Colour Odour Melting point/Free: Boiling point/initial Flammability Lower/Upper explo Flash Point Auto-ignition temp Decomposition tem pH Kinematic viscosity Solubility Partition coefficien Vapour pressure Density/relative de Relative vapour pr Particle characteris	boiling point/boiling range psion limit erature nperature y it n-octanol/water ensity ressure	Liquid Colourless No data available. 13.5 °C 193 °C @ Press: 400 Torr No data available. No data available. No data available. No data available. No data available. No data available. No data available. S2.1 g/L @ 20 °C No data available. No data available.
!	Other information	3103	
	No data available.		
	Stability and reactivit	ty	
1	Reactivity		
	Stable under recomm	nended transport or storage cor	nditions.
.2	Chemical stability		
	Stable under normal	conditions.	
.3	Possibility of hazard	ous reactions	
	Hazardous reactions		
	Decomposition may c transport or storage c		s or materials listed below. Hazardous reactions will not occur under normal
.4	Conditions to avoid		
	Heat.		
.5	Incompatible materia	als	
	Materials to avoid		
	Strong acids. Strong	oxidising agents.	
	Toxicological information	ation	
.1	Information on toxico	ological effects	
	<b>Acute toxicity</b> No data available.		
	Skin corrosion/irritat No data available.	ion	
	Serious eye damage/		
	Serious eye damage/	eye irritation (Category 1)	
	Serious eye damage/ Respiratory or skin s No data available.		



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	Consistencesisity			
	Carcinogenicity No data available.			
)	Reproductive toxicity	/		
	No data available.			
)	STOT-single exposur			
		toxicity, single exposure; Respiratory tract irritation (Category 3)		
	STOT-repeated expos	sure toxicity, repeated exposure (Category 2)		
	Aspiration hazard	toxicity, repeated exposure (Category 2)		
	No data available.			
	Symptoms / routes o	f exposure		
	Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.		
	Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness. There may be pain and redness.		
	Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose. There may be soreness and redness of the mouth and throat. There may be vomiting.		
	Inhalation	Drowsiness or mental confusion may occur. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be shortness of breath with a burning sensation in the throat. There may be vomiting.		
	Delayed / immediate effects	Drowsiness or mental confusion may occur. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. There may be bleeding from the mouth or nose.		
	Other information	No data available.		
.2	Information on other	hazards		
.2.1	Endocrine disrupting p	roperties		
	This product does not	t contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.		
1.2.2	Other information			
	No additional informa	tion		
2.	Ecological information	on		
2.1	Toxicity			
	No data available.			
2.2	Persistence and deg	radability		
	Biodegradable.			
2.3	Bioaccumulative potential			
	No bioaccumulation p	potential.		
.4	Mobility in soil			
	Readily absorbed into	o soil.		
2.5	Results of PBT and v	PvB assessment		
	This substance is not identified as a PBT substance.			
		u properties		
6	Endocrine disrupting	, p. open and		
2.6	Endocrine disrupting	identified as having endocrine disrupting properties		
	Endocrine disrupting	identified as having endocrine disrupting properties		
2.6 2.7	Endocrine disrupting This substance is not	identified as having endocrine disrupting properties		
	Endocrine disrupting This substance is not Other adverse effects	s identified as having endocrine disrupting properties		



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#### 13.1 Waste treatment methods

#### **Disposal operations**

Transfer to a suitable container and arrange for collection by specialised disposal company.

#### NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### 14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN2810	UN2810	UN2810	UN2810	UN2810
14.2. UN proper shipping nar	ne			
TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.	Toxic liquid, organic, n.o.s.	TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.
Transport document descript	tion			
UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (N-VINYL-2-P YRROLIDONE), 6.1, III	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (N-VINYL-2-P YRROLIDONE), 6.1, III	UN2810 Toxic liquid, organic, n.o.s. (N-Vin yl-2-pyrrolidone), 6.1, III	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (N-VINYL-2-P YRROLIDONE), 6.1, III	UN2810 TOXIC LIQUID, ORGANIC, N.O.S. (N-VINYL-2-P YRROLIDONE), 6.1, III
14.3. Transport hazard class(	(es)			
6.1	6.1	6.1	6.1	6.1
		5	() *	<b></b>
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
No	No	No	No	No

#### 15. Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
10.1	Carety, neutri and environmental regulationoregiolation opeome for the Substance of mixture

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

#### Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:	No data available.
Regulation (EC) 1005/2009 on substances that deplete the ozone layer:	No data available.
Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available.

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### 16. Other information

**H-Statement Full Texts** 

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	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H318	Causes serious eye damage
	H332	Harmful if inhaled
	H335	May cause respiratory irritation
	H336	May cause drowsiness or dizziness
	H351	Suspected of causing cancer
	H373	May cause damage to organs through prolonged or repeated exposure
A	bbreviations Full	Texts
	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
	ALARP	As low as is reasonably practicable
	CAS	Chemical Abstracts Service
	CLP	Classification, Labelling and Packaging Regulations
	COSHH	Control of Substances Hazardous to Health
	EC Number	European Community Number
	EC50	Effective Concentration 50%
	EILINCS	European List of Notified Chemical Substances
	EINECS	European Inventory of Existing Commercial Chemical Substances
	GHS	Globally Harmonised System
	HSE	Health & Safety Executive UK
	IATA	International Air Transport Association
	IM	Intramuscular
	IMDG	The International Maritime Dangerous Goods Code
	IP	Intraperitoneal
	IV	Intravascular
	LD50	Lethal Dose 50%
	LOEC	Lowest Observable Effective Concentration
	LTEL	Long Term Exposure Limit
	NOEC	No Observable Effective Concentration
	OECD	Organisation for Economic Cooperations and Development
	PBT	Persistent Bioaccumulative Toxic
	PPE	Personal Protective Equipment
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
	RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
	SC	Subcutaneous
	SDS	Safety Data Sheet
	STEL	Short Term Exposure Limit
	STOT	Specific Target Organ Toxicity
	VOC	Volatile Organic Compounds
	vPvB	Very Persistent and Very Bioaccumulative
	WEL	Workplace Exposure Limits

# This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

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