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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.

Product code	: GK7327
Product name	: N,N,Dimethylformamide, 99.5%
CAS number	: 68-12-2
EINECS	: 200-679-5
Physical form	: liquid, substance
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Company name	:	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

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

H226	Flam. Liq. 3
H302	Acute Tox. 4
H319	Eye Irr. 2A
H332	Acute Tox. 4
H360	Repr. 1B

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H360	May damage fertility or the unborn child
Precautionary statements	3
P260	Do not breathe 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P261	Avoid breathing vapors.
P241	Use explosion-proof electrical equipment.

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P264	

Do not breathe fume.

2.3 Other hazards

РВТ

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.1 Substances

Name	Identifier	%	Classification
N,N,Dimethylformamide, 99.5%	CAS: 68-12-2 EC: 200-679-5 REACH: Not applicable	99.5%	H226, Flam. Liq. 3 H302, Acute Tox. 4 H319, Eye Irr. 2A H332, Acute Tox. 4
			H360, Repr. 1B

4. First aid measures

4.2

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. Wash immediately with plenty of soap and water.
Eye contact	Consult a doctor. Bathe the eye with running water for 15 minutes.
Ingestion	Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Wash out mouth with water.
Inhalation	Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.
lost important sym	ptoms and effects, both acute and delayed
Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness.
Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	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 vomiting.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

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

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture.

5.3 Advice for fire-fighters

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

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not create dust. Eliminate all sources of ignition. 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. Do not use equipment in clean-up procedure which may produce sparks.

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. Smoking is forbidden. Use non-sparking tools. 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. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

Control parameters

8.1

Workplace exposure limits

Substance (CAS)	Control Parameter	Value	Notes	Source
N,N-Dimethylformamide (68-12-2)	Long-term Exposure Limit (ppm)	5	Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	15		
	Short-term Exposure Limit (ppm)	10		
	Short-term Exposure Limit (mg m^{-3})	30		
	Long-term Exposure Limit (ppm)	15	skin	2009/161/EU
	Long-term Exposure Limit (mg m ⁻³)	5		
	Short-term Exposure Limit (ppm)	30		
	Short-term Exposure Limit (mg m ⁻³)	10		

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N,N Dimethylformamide (68-12-2)	Long-term Exposure Limit (ppm)	5	Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	15		
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	Short-term Exposure Limit (mg m ⁻³)	30		
	Long-term Exposure Limit (ppm)	15	skin	2009/161/EU
	Long-term Exposure Limit (mg m ⁻³)	5		
	Short-term Exposure Limit (ppm)	30		
	Short-term Exposure Limit (mg m ⁻³)	10		

8.2 Exposure controls

Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. 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.
Eye protection	Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-61 °C
Boiling point/initial boiling point/boiling range	153 °C @ Press: 760 Torr
Flammability	Flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.945
Relative vapour pressure	No data available.
Particle characteristics	No data available.

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

^{10.2} Chemical stability

Stable at room temperature. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

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Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

Incompatible materials

Materials to avoid

10.5

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

N,N-Dimethylformamide

LD50 Mouse (IP): 1120 mg/kg LD50 Mouse (Oral): 6.8 mL/kg

N,N Dimethylformamide

LD50 Mouse (IP): 1120 mg/kg LD50 Mouse (Oral): 6.8 mL/kg

b) Skin corrosion/irritation No data available.

c) Serious eye damage/irritation

Serious eye damage/eye irritation (Category 2A)

- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity
 Reproductive toxicity (Category 1B)
- h) STOT-single exposure No data available.

i) STOT-repeated exposure

No data available.

j) Aspiration hazard

No data available.

Symptoms / routes of exposure

Skin contact	There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact.
Eye contact	The eyes may water profusely. There may be irritation and redness.
Ingestion	Nausea and stomach pain may occur. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. There may be vomiting.
Inhalation	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 vomiting.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur.
Other information	No data available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties



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This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.

11.2.2	Other information				
	No additional information				
12.	Ecological information				
12.1	Toxicity				
	No data available.				
12.2	Persistence and degradability				
	Biodegradable.				
12.3	Bioaccumulative potential				
	No bioaccumulation potential.				
12.4	Mobility in soil				
	Readily absorbed into soil.				
12.5	Results of PBT and vPvB assessment				
	This substance is not identified as a PBT substance.				
12.6	Endocrine disrupting properties				
	This substance is not identified as having endocrine disrupting properties				
12.7	Other adverse effects				
	No data available.				
13.	Disposal considerations				
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				
UN2265	UN2265	UN2265	UN2265	UN2265
14.2. UN proper shipping nar	ne			
N,N-DIMETHYLFOR MAMIDE	N,N-DIMETHYLFOR MAMIDE	N,N-Dimethylformami de	N,N-DIMETHYLFOR MAMIDE	n,n-dimethylfor Mamide
Transport document descrip	tion			
UN2265 N,N-DIMET HYLFORMAMIDE, 3, III	UN2265 N,N-DIMET HYLFORMAMIDE, 3, III	UN2265 N,N-Dimethy Iformamide, 3, III	UN2265 N,N-DIMET HYLFORMAMIDE, 3, III	UN2265 N,N-DIMET HYLFORMAMIDE, 3, III
14.3. Transport hazard class	(es)			
3	3	3	3	3
3	3	3	3	3

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15. 15.1

15.2

16.

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	111	Ш	Ш	III
14.5. Environment	al hazards			
No	No	No	No	No
Regulatory infor	mation			
Safety, health and er	vironmental regulations/legis	ation specific for the substanc	e or mixture	
This Safety Data Regulation (EU)		cordance with Commissi	on Regulation (EC) 190	7/2006, amended by Commissior
Authorisations/Rest	rictions			
Regulation (E authorisation:	,	Annex XIV list of substar	nces subject to	No data available.
	C) 1907/2006, REACH, at and use of certain dang		n the manufacture, plac	cing 30 Nov 2021, Entry No.: 76
0	,	nces that deplete the ozo	,	No data available.
Regulation (E 2019/1021:	C) 850/2004 on persiste	nt organic pollutants, am	ended by (EU) No	No data available.
Chemical safety ass	essment			
A chemical safet	y assessment has not be	een carried out for the su	bstance or the mixture	by the supplier.
Other informatio	on			
H-Statement Ful	l Texts			
H226	Flammable liquid and	l vapour		
H302	Harmful if swallowed			
	Causes serious eye irritation			
H319	Causes serious eye i	rritation		
	Causes serious eye i Harmful if inhaled	rritation		
H319				
H319 H332	Harmful if inhaled May damage fertility			
H319 H332 H360	Harmful if inhaled May damage fertility ull Texts	or the unborn child	ional Carriage of Dange	erous Goods by Inland Waterways
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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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