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

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

#### 1.1 **Product identifier**

Product code : GK6315

Product name : 2,2,6,6-Tetramethylpiperidine

: 768-66-1 CAS number **EINECS** : 212-199-3 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)

2.1

#### **Hazards identification** 2.

# Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H226 Flam. Liq. 3 H302 Acute Tox. 4 H315 Skin Irr. 2 H319 Eye Irr. 2A H335 STOT SE 3 H336 STOT SE 3

#### 2.2 Label elements

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

#### **Pictograms**





Signal words Warning

## **Hazard statements**

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

## **Precautionary statements**

Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking. P210

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/...

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

P264 Do not breathe fume.

P241 Use explosion-proof electrical equipment.

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#### 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

## 3.0 Composition/information on ingredients

#### 3.1 Substances

Name	Identifier	%	Classification
2,2,6,6-Tetramethylpiperidine	CAS: 768-66-1	98.0%	H226, Flam. Liq. 3
	EC: 212-199-3		H302, Acute Tox. 4
	REACH: Not		H315, Skin Irr. 2
	applicable		H319, Eye Irr. 2A
			H335, STOT SE 3
			H336, STOT SE 3

#### 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.
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. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
Inhalation	If unconscious and breathing is OK, place in the recovery position. Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor.

## 4.2 Most important symptoms 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	There may be irritation and redness. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. 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.
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. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

## 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

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

## 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. Eliminate all sources of ignition. 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. 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

# 8.1 Control parameters

#### Workplace exposure limits

No workplace exposure limit control parameters set

# 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 with side-shields. Safety glasses.
Skin protection	Protective clothing.

#### 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

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GK6315 v2.0



# **Safety Data Sheet**

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Physical state Colour

Odour

Melting point/Freezing point

Boiling point/initial boiling point/boiling range

Flammability

Lower/Upper explosion limit

Flash Point

Auto-ignition temperature Decomposition temperature

nН

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water

Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

Liquid Colourless No data available.

28 °C 156 °C

Flammable liquid and vapour

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

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.

#### 10.5 Incompatible materials

# Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

## 11. Toxicological information

#### 11.1 Information on toxicological effects

#### a) Acute toxicity

No data available.

# b) Skin corrosion/irritation

Skin corrosion/irritation (Category 2)

#### 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

No data available.

#### h) STOT-single exposure

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Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

#### i) STOT-repeated exposure

No data available.

# j) Aspiration hazard

No data available.

## 11.2 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	There may be irritation and redness. There may be pain and redness.
Ingestion	Nausea and stomach pain may occur. Severe poisoning can cause shock, unconsciousness and convulsions. Severe poisoning can cause vision to be blurred or blindness, severe headache and rapid gasping breathing. There may be irritation of the throat. There may be soreness and redness of the mouth and throat. Severe poisoning can cause unconsciousness and severe and persistent nausea and vomiting.
Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. 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.
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.

# 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.

NE

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

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#### 14. Transport information

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN1992	UN1992	UN1992	UN1992	UN1992
14.2. UN proper shipping nam	10			
FLAMMABLE LIQUID, TOXIC	FLAMMABLE LIQUID, TOXIC	Flammable liquid, toxic	FLAMMABLE LIQUID, TOXIC	FLAMMABLE LIQUID, TOXIC
Transport document descript	ion			
UN1992 FLAMMABLE LIQUID, TOXIC (2,2, 6,6-TETRAMETHYLP IPERIDINE), 3 (6.1), III	UN1992 FLAMMABLE LIQUID, TOXIC (2,2, 6,6-TETRAMETHYLP IPERIDINE), 3 (6.1), III	UN1992 Flammable liquid, toxic (2,2,6,6-T etramethylpiperidine), 3 (6.1), III	UN1992 FLAMMABLE LIQUID, TOXIC (2,2, 6,6-TETRAMETHYLP IPERIDINE), 3 (6.1), III	UN1992 FLAMMABLE LIQUID, TOXIC (2,2, 6,6-TETRAMETHYLF IPERIDINE), 3 (6.1), III
14.3. Transport hazard class(	es)			
3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)
		6	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
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

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

# Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:

No data available.

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Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing No data available. on the market and use of certain dangerous substances:

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

No data available.

2019/1021:

#### 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

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

**Abbreviations Full Texts** 





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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
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) 2020/787.

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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