GK4401 v2.0



# 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	: GK4401
Product name	: Manganese(IV) oxide, 99.9%
CAS number	: 1313-13-9
EINECS	: 215-202-6
Physical form	: solid, substance
REACH	<ul> <li>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.</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

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

H302	Acute Tox. 4
H332	Acute Tox, 4

# 2.2 Label elements

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

#### Pictograms



Signal words	Warning
Hazard statements	
H302	Harmful if swallowed
H332	Harmful if inhaled
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P264	Do not breathe fume.
Other hererde	

# 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

#### 3.1 Substances

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**4.** 4.1

4.2

5.2

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Name		Identifier	%	Classification
Manganese(IV) oxide, 99.9%		CAS: 1313-13-9 EC: 215-202-6 REACH: Not applicable	99.9%	H302, Acute Tox. 4 H332, Acute Tox. 4
irst aid measures				
escription of first a	id measures			
Skin contact			0	for 10 minutes or longer if substance is mmediately unless stuck to skin.
Eye contact	Consult a doctor. Bat	he the eye with running wa	ter for 15 mir	nutes.
Ingestion	Consult a doctor. Do Wash out mouth with		scious, give h	alf a litre of water to drink immediately.
Inhalation	Remove casualty fror	n exposure ensuring one's	own safety w	hilst doing so. Consult a doctor.
lost important symp	otoms and effects, both a	acute and delayed		
Skin contact	There may be irritatio	n and redness at the site o	f contact.	
Eye contact	The eyes may water	profusely. There may be pa	ain and redne	SS.
Ingestion	Nausea and stomach There may be vomitir		ly be sorenes	s and redness of the mouth and throat.
Inhalation	Nausea and stomach in the chest. There m		y be irritation	of the throat with a feeling of tightness
Delayed / immediate effects	Immediate effects car	n be expected after short-te	erm 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.

# 5. Fire-fighting measures

# 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

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

Exposure hazards

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

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. 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

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

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#### 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 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 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	Solid
Colour	Grey
Odour	No data available.
Melting point/Freezing point	553 °C (decomp)
Boiling point/initial boiling point/boiling range	No data available.
Flammability	No data available.
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	73 "g/L @ 20 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	5.000
Relative vapour pressure	No data available.
Particle characteristics	No data available.
ther information	

# 9.2 Other information

No data available.

#### 10. Stability and reactivity

# 10.1 Reactivity

Stable under recommended transport or storage conditions.

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10.2	Chemical stability		
	Stable under normal co	onditions.	
10.3	Possibility of hazardou	us reactions	
	Hazardous reactions		
	Decomposition may oc transport or storage co	cur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal nditions.	
10.4	Conditions to avoid		
	Heat.		
10.5	Incompatible materials		
	Materials to avoid		
	Strong acids. Strong ox	kidising agents.	
11.	Toxicological informat	ion	
11.1	Information on toxicol	ogical effects	
a)	Acute toxicity		
	No data available.		
b)	Skin corrosion/irritatio No data available.	n	
c)	Serious eye damage/ir	ritation	
d)	No data available.		
d)	Respiratory or skin sensitisation No data available.		
e)	Germ cell mutagenicity		
Ð	No data available.		
f)	Carcinogenicity No data available.		
g)	Reproductive toxicity		
	No data available.		
h)	STOT-single exposure		
	No data available.		
i)	STOT-repeated exposu	ire	
n	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.	
	Eye contact	The eyes may water profusely. There may be pain and redness.	
	Ingestion	Nausea and stomach pain may occur. There may be soreness and redness of the mouth and throat. There may be vomiting.	
	Inhalation	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	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.

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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
	This product does not require a classification for transport.
15.	Regulatory information
15. 15.1	Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture
13.1	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 No data available. authorisation:
	Demotries (EQ) 4007/0200 DEAQUE Association and the second constraints and the second states and the

Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placingNo data available.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 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

H302	Harmful if swallowed
H332	Harmful if inhaled

# Abbreviations Full Texts

ADN ADR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL VOC	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Long Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet Short Term Exposure Limit Volatile Organic Compounds
vOC vPvB WEL	Very Persistent and Very Bioaccumulative Workplace Exposure Limits
	Workplace Exposure Enrits

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

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