GK1848 v3.0



### Safety Data Sheet

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

	Pictograms Signal words Hazard statements H225 Precautionary statements P210 P241 Other hazards PBT This substance is not identified Composition/information of Substances	Keep away from heat, hot Use explosion-proof electri ified as a PBT substance.	surface, sparks, o	pen	flames and other ignition sources No smoking.
3	Signal words Hazard statements H225 Precautionary statements P210 P241 Other hazards PBT This substance is not identified Composition/information of	Danger Highly flammable liquid an Keep away from heat, hot Use explosion-proof electri ified as a PBT substance.	surface, sparks, o	pen	flames and other ignition sources No smoking.
	Signal words Hazard statements H225 Precautionary statements P210 P241 Other hazards PBT This substance is not identi	Danger Highly flammable liquid an Keep away from heat, hot Use explosion-proof electri ified as a PBT substance.	surface, sparks, o	pen	flames and other ignition sources No smoking.
	Signal words Hazard statements H225 Precautionary statements P210 P241 Other hazards PBT	Danger Highly flammable liquid an Keep away from heat, hot Use explosion-proof electri	surface, sparks, o	pen	flames and other ignition sources No smoking.
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	Signal words Hazard statements H225 Precautionary statements P210 P241	Danger Highly flammable liquid an S Keep away from heat, hot	surface, sparks, o	pen	flames and other ignition sources No smoking
	Signal words Hazard statements H225 Precautionary statements	Danger Highly flammable liquid an	·		
	Signal words Hazard statements	Danger	d vapour		
	Signal words				
	Pictograms	GHS02			
	Pictograms				
	Label elements under CLP accord	ling to (EC) 1272/2008			
	Label elements	,· -			
		n. Lig. 2			
	Classification under CLP accordin				
	Hazards identification Classification of the substa	ance or mixture			
	number	HS Direct 111 (UK, 24 hours),	112 (EU, 24 Hour	's), +	+44 (0) 1225 667 798 (09.00 – 17.00 GMT)
	Emergency telephone num				
		nited Kingdom	Web	:	www.glentham.com
		orsham SN13 9SW	Email		info@glentham.com
	1 2	lentham Life Sciences Ltd nit 5 Leafield Way	Telephone Fax		+44 (0) 1225 667 798 +44 (0) 2033 978 909
3	Details of the supplier of the	-	Talassis	_	. 44 (0) 4005 007 700
	PC21: Laboratory chemical	ls.			
2		f the substance or mixture and	uses advised ag	ains	t
	Physical form : lic REACH : A ar	quid, substance registration number is not avai	the annual tonnag	je do	ce as the substance or its uses oes not require a registration or adline.
		445-45-0 15-892-9			
		rimethyl orthoacetate			
		K1848			
	Product identifier		,		
		ince/mixture and of the compa	nv/undertaking		

name	lacitation	70	Classification
Trimethyl orthoacetate	CAS: 1445-45-0 EC: 215-892-9 REACH: Not applicable	98.5%	H225, Flam. Liq. 2

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#### 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.		
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.		
Inhalation	Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.		

#### 4.2 Most important symptoms and effects, both acute and delayed

Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness.
Ingestion	There may be irritation of the throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure.

#### 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

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. 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.

#### 6. Accidental release measures

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

#### Personal precautions

6.1

Eliminate all sources of ignition. 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

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

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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

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.
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	No data available.
Boiling point/initial boiling point/boiling range	108 °C
Flammability	Highly flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	240°C
Decomposition temperature	No data available.
рН	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	No data available.
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.

#### <sup>10.2</sup> 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 No data available.
- b) Skin corrosion/irritation
  - No data available.
- c) Serious eye damage/irritation No data available.
- 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 No data available.
- i) STOT-repeated exposure No data available.

### j) Aspiration hazardNo data available.

#### Symptoms / routes of exposure

Skin contact	There may be mild irritation at the site of contact.
Eye contact	There may be irritation and redness.
Ingestion	There may be irritation of the throat.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Delayed / immediate effects	Delayed effects can be expected after long-term exposure.
Other information	No data available

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

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.

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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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3272	UN3272	UN3272	UN3272	UN3272
14.2. UN proper shipping na	me			
ESTERS, N.O.S.	ESTERS, N.O.S.	Esters, n.o.s.	ESTERS, N.O.S.	ESTERS, N.O.S.
Transport document descrip	otion			
UN3272 ESTERS, N.O.S. (TRIMETHYL ORTHOACETATE), 3, II	UN3272 ESTERS, N.O.S. (TRIMETHYL ORTHOACETATE), 3, II	UN3272 Esters, n.o.s. (Trimethyl orthoacetate), 3, II	UN3272 ESTERS, N.O.S. (TRIMETHYL ORTHOACETATE), 3, II	UN3272 ESTERS, N.O.S. (TRIMETHYL ORTHOACETATE), 3, II
14.3. Transport hazard class	e(es)			
3	3	3	3	3
14.4. Packing group				
II	II	II	II	II
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

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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

H225

#### **H-Statement Full Texts**

Highly flammable liquid and vapour

#### Abbreviations 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
ΙΑΤΑ	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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