

SDS – Keratech 7900

Information

1. Identification of the Substance/Preparation and the Company/Undertaking

1.1 Product identifier:

Product name: Keratech 7900
REACH registered name: Fatty acids, C16-18 and C18-unsatd. Me esters
REACH registered No: 01-2119471664-32-0125
CAS Number: 67762-38-3

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

Identified use(s): Fuel and fuel additives

1.3 Details of the supplier of the safety data sheet:

Kerax Limited
Moorland Gate House
Cowling Road
Chorley
Lancashire, PR6 9DR
Telephone: +44 (0) 1257 237350

1.4 Emergency telephone number: +44 (0) 7811 262958 (24 Hours)

Email address: laboratory@kerax.co.uk

2. Hazards Identification

2.1 Classification of the Substance or Mixture: CLP Regulation 1272/2008/EC

Classification under CLP Regulation – This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Most Important Adverse Effects: Not available

2.2 Label Elements: Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Fatty acids, C16-18 and C18-unsatd. Methyl Esters

Hazard: Statements: None

Signal Word: None

Hazard Pictogram: None

Precautionary statements: None

2.3 Other Hazards:

- **PBT:** This product is not identified as a PBT / vPvB substance

3. Composition

3.1 Substances:

CAS-No:	Substance Name	%	EC Number	REACH Reg No
67762-38-3	Fatty acids, C16-18 and C18-unsatd. methyl esters	100	265-015-4	01-2119471664-32-0125

3.2 Mixtures: Not Applicable

There are no additional ingredients present which, within current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section in accordance with Regulation (EC) No. 1272/2008

4. First aid measures

4.1 Description of First Aid Measures

General Information: Remove contaminated / saturated clothing immediately. In case of accident or illness seek medical advice immediately.

Inhalation: Remove the affected person to fresh air, keep warm and rest. If recovery is not rapid, obtain medical attention

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Skin Contact: Wash the affected parts of the body with soap and water. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.

Eye Contact: Flush eyes immediately with fresh water for at least 5 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.

Ingestion: Do not induce vomiting. No emergency measures are needed but if adverse health effects follow or large amounts are swallowed, refer for medical attention.

Self-Protection of First Aider: First aider, pay attention to self-protection.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Over-heated oil can produce fumes which may be irritant when breathed in.

Skin Contact: May cause slight irritation to skin.

Ingestion: No known significant effects or critical hazards

Eye Contact: May cause slight irritation to eyes

4.3 Indication of any immediate medical attention and special treatment needed

In contact with or splashed by hot liquid:

Skin Contact Cool the skin immediately with cool water. Treat burns according to their severity. Obtain medical attention. Never try to remove the material with solvents.

Contact with eyes Cool the area immediately with cold water. Seek advice of an ophthalmologist.

Specific Treatment: First Aider, decontamination, treatment of symptoms.

Notes to doctor: Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media: Alcohol resistant foam, dry chemical, carbon dioxide, water spray.
Do not use water jet

5.2 Special hazards arising from the substance or mixture: During a fire, toxic gases (carbon monoxide, carbon monoxide) may be generated by thermal decomposition or combustion.

5.3 Advice for firefighters: Only suitably trained personnel should attempt to tackle fires. Do not stay in the danger zone without respiratory protective equipment and protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel - Wear suitable PPE, use good industrial hygiene & safe practice.

Emergency personnel – Wear PPE and if vapour or fog is generated use appropriate

NIOSH/MSHA approved respirator

6.2 Environmental precautions: Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses.

6.3 Methods and material for containment and cleaning up: Use Sand or active clay to absorb spilled substance and remove to containers for disposal

6.4 Reference to other Sections: See sections 8 and 13

7. Handling and storage

7.1 Precautions for safe handling: Avoid skin contact. Avoid inhalation of vapour, mist or fumes. Do not wear contaminated clothing. Avoid contact with the eyes – wear chemical protective goggles when handling the product. Protective clothing such as impervious gloves should be worn if skin contact is anticipated. Protective clothing should be regularly inspected and maintained, discard oil saturated leather articles. The use of barrier and after work creams may be beneficial. Wash hands after working with the material.

7.2 Conditions for safe storage, including any incompatibilities: Keep containers tightly closed. Avoid heat, direct sunlight and sources of ignition. Store in original containers or in other mild steel or high density polyethylene containers which are closable and clearly labelled. Clean up any spilled material immediately.

7.3 Specific end use(s): This material is formulated for various uses.

8. Exposure Controls/Personal Protection

8.1 Control Parameters: In all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.

DNEL / PNEC Values: -

Substance Name	Type	Exposure Long Term	Value	Population	Effect
Fatty acids, C16-18 and C18-unsatd. methyl esters	DNEL	Dermal	10mg/kg bw/day	Worker	Systemic
	DNEL	Inhalation	6.96 mg/m ³	Worker	Systemic
	DNEL	Dermal	5 mg/kg bw/day	Consumer	Systemic
	DNEL	Inhalation	23 mg/m ³	Consumer	Systemic
	DNEL	Oral	5 mg/kg bw/day	Consumer	Systemic

Substance Name	Type	Route	Value
Fatty acids, C16-18 and C18-unsatd. methyl esters	PNEC	Fresh Water	2.504mg/l
	PNEC	Intermediate Release	25.04mg/l
	PNEC	Marine Water	0.2504 mg/kg
	PNEC	Sewage Treatment Plant	520 mg/l

8.2 Exposure Controls:

Appropriate engineering measures: Facilities storing or utilising this material should be equipped with an eyewash facility.

Respiratory protection: Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation. Local exhaust is recommended. Mechanical ventilation may be required.

Eye protection: Wear appropriate eye goggles.

Skin protection: No special precautions are needed beyond clean working conditions and safe handling practices. Change heavily contaminated clothing.

Hand protection: Use impervious gloves [conforming to EN374] PVC is suitable for casual contact. If direct contact for more than 2 hours then Neoprene or nitrile gloves recommended, observe instructions regarding permeability provided by supplier.

8.3 Environmental Exposure Controls: See sections 6, 7, 12 and 13

9. Physical and Chemical Properties

9.1 Information on basic chemical and physical properties:

Appearance:	Green Yellow Liquid
Odour:	Odourless
Odour threshold:	Not determined
pH:	Not determined
Melting point/ Freezing point:	6.29°C at 1 atm
Boiling point/ range:	354.3°C at 1 atm
Flash Point:	173°C +/- 1°C
Flammability (solid, gas):	Not determined
Explosion Limits:	Not determined
Vapour pressure:	3.6 m Bar at 20°C / 4.2 m Bar at 25°C
Vapour density:	Not determined
Relative density (at 20°C):	0.822 g/cm ³
Solubility:	<0.023 mg/l
Solubility in other solvents:	Not determined
Partition coefficient n-octanol/water:	Not determined
Auto-ignition temperature:	261°C
Decomposition temperature:	Not determined
Viscosity (Dynamic, at 20°C):	6.1 mPa.s
Explosive properties:	Not determined
Oxidizing properties:	Not determined

9.2 Other Information: None

10. Stability and Reactivity

10.1 Reactivity: Oxidising agents. Strong bases

10.2 Chemical stability: Under normal conditions, this product is stable.

10.3 Possibility of hazardous reactions: No specific hazardous reactions are expected.

10.4 Conditions to avoid: Not available

10.5 Incompatible materials: Oxidising agents. Strong bases

10.6 Hazardous decomposition products: Not available

11. Toxicological Information

11.1 Information on toxicological effects - Fatty acids, C16-18 and C18-unsatd. Methyl Esters. [67762-38-3] Based on available data, the classification criteria are not met.

Acute Toxicity

Acute Toxicity (oral)	LD50>5000mg/kg
Acute Toxicity (dermal)	LD50>2000mg/kg – read across 67762-39-4
Acute Toxicity (inhalation)	Not determined

Skin Corrosive / Irritation: Not irritating – Rabbit TD 4hrs Obs 3 days

Serious Eye Damage Irritation: Not irritating – Rabbit Observation 3 days – Recovery 1 day

Respiratory Sensitisation: Not determined

Skin Sensitisation: OECD 406 – non sensitising – Guinea pig

Repeated Dose Toxicity: Based on available data, the classification criteria are not met.

Mutagenicity: Negative to Ames test OECD – 471
Negative – OECD - 473

Carcinogenicity: no effect – mouse – Dermal 1 Yr. – Oral 300 days

Reproductive Toxicity: 1000 mg/kg bw/day, NOAEL. Oral gavage OECD 422.
Result: No effects
Species: Rat

Toxicokinetics, metabolism and Dist': Based on available data, the classification criteria are not met.

Specific target organ toxicity: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

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12. Ecological Information

12.1 Toxicity: -

Aquatic toxicity (fish):	LR50 > 0.26mg/l – 96hr – Zebra danio– OECD 203
Aquatic toxicity (algae):	EC50 73729mg/l – 72hr – Green Algae Pseudokirchnerella Subcapitata – OECD 201
Aquatic toxicity (invertebrate):	EC50 2504mg/l – 48hr – Daphnia Magna – OECD 202
Mobility in soil:	Readily Biodegradable
Biodegradation:	Readily Biodegradable 75% OECD 301 B
Bioaccumulation potential:	Will not bio-accumulate.
Other Ecological information:	No data available
Results of PBT and vPvB assessment:	Not considered to be PBT

13 Disposal Considerations

13.1 Waste treatment methods: Transport to authorised waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31EC apply). European Waste Catalogue No. 050199/130899.

14. Transport Information

- 14.1 UN number: Not Classified.
- 14.2 UN Proper shipping name: Not Classified
- 14.3 Transport Hazard Class(es): Not Classified
- 14.4 Packing Group: Not Classified
- 14.5 Environmental Hazards: None
- 14.6 Special Precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not Classified

14.8 ADR/RID/AND/IATA/IMDG – Not regulated as dangerous goods

15. Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I
Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II
Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended
Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended
Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry
Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA
Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation
Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended
Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work
Not regulated.

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Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

15.2 Chemical Safety Assessment: The supplier has performed a chemical safety assessment of this substance.

16. Other Information

Indication of changes: None

Abbreviations & Acronyms

PNEC	Predicted No Effect Level
DNEL	Derived No Effect Level
LD50	Median Lethal Dose
LC50	Median Lethal Concentration
CAS No	Chemical Abstract Services number
CLP	Classification Labelling and Packaging Regulation
ES	Exposure Scenario
EC	European Commission
EC No	European Chemical Number – EINECS - ELINCS
ECHA	European Chemical Agency
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances.
SU	Sector of Use

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