

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

Octosol LS

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

Relevant identified uses of the substance or mixture

Industrial raw material

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Tiarco Chemical Europe GmbH

Am Gut Baarking 12

46395 Bocholt

Telephone no. +49 2871 23476-0

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Email office@tiarco.de

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eye Dam. 1; H318

Skin Irrit. 2; H315

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS05

Signal word

Danger

Hazardous component(s) to be indicated on label:

Sulfuric acid, mono-C9-11-alkyl esters, sodium salts

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P280 Wear protective gloves/eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

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2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

aqueous solution

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration
			%
1	Sulfuric acid, mono-C9-11-alkyl esters, sodium salts		
	84501-49-5 282-968-6 - -	Eye Dam. 1; H318 Skin Irrit. 2; H315	>= 13.00 - <= 30.00 %-b.w.
2	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l		
	85586-07-8 287-809-4 - 01-2119489463-28	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 7.00 - <= 13.00 %-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 10% Eye Dam. 1; H318: C >= 20%	-	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Sulphur oxides; Metal oxides

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5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures
6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pump off large amounts. Pick up with absorbent material (e.g. kieselguhr). When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage
7.1 Precautions for safe handling
Advice on safe handling

No special measures necessary if stored and handled as prescribed. Provide good ventilation of working area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. Keep from freezing.

Recommended storage temperature

Value 5 - 35 °C

Advice on storage assembly

Do not store together with: Oxidizing agents; Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
DNEL and PNEC values
DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l			85586-07-8 287-809-4
	dermal	Long term (chronic)	systemic	4060 mg/kg/day
	inhalative	Long term (chronic)	systemic	285 mg/m ³



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DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l			85586-07-8 287-809-4	
	oral	Long term (chronic)	systemic	24	mg/kg/day
	dermal	Long term (chronic)	systemic	2440	mg/kg/day
	inhalative	Long term (chronic)	systemic	85	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density >=400 g/l		85586-07-8 287-809-4	
	water	fresh water	0.102	mg/l
	water	marine water	0.01	mg/l
	water	Aqua intermittent	0.036	mg/l
	water	fresh water sediment	3.58	mg/kg dry weight
	water	marine water sediment	0.358	mg/kg dry weight
	soil	-	0.654	mg/kg dry weight
	sewage treatment plant	-	1084	mg/l

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product .

Appropriate Material PVC

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
slightly yellow	
Odour	
characteristic	
Odour threshold	
No data available	
pH value	
Value	7.0 - 9.0
Concentration	5 %
Boiling point / boiling range	
Value	> 100 °C



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Melting point / melting range			
Value	0 °C		
Decomposition point / decomposition range			
No data available			
Flash point			
Value	> 100 °C		
Method	closed cup		
Auto-ignition temperature			
No data available			
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
not flammable			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
Value	23	hPa	
Reference temperature	20	°C	
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
Value	1.05		
Density			
No data available			
Solubility in water			
Remarks	soluble		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
	log Pow	-2.42	
	Reference temperature	20	°C
	Method	OECD 107	
	Source	ECHA	
Viscosity			
No data available			

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of use.

10.2 Chemical stability

Stable under normal conditions of use.

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10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Keep from freezing. Heat; light

10.5 Incompatible materials

Acids; Oxidizing agents

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	Octosol LS
Remarks	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
LD50		1800	mg/kg bodyweight
Species	rat		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
LD50		> 2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity	
No data available	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	strongly irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		



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Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
Route of exposure		Skin	
Duration of exposure		48	h
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No data available			

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT-single exposure			
No data available			

STOT-repeated exposure			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
NOAEL		488	mg/kg
Duration of exposure		13	week/s
Species		rat	
Method		OECD 408	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard			
No data available			

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
LC50		3.6	mg/l
Duration of exposure		96	h
Species		Oncorhynchus mykiss	
Method		OECD 203	
Source		ECHA	

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
NOEC		0.11 - 0.35	mg/l
Duration of exposure		34	day(s)
Species		Pimephales promelas	
Method		OECD 210	
Source		ECHA	



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Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
EC50		4.7	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Method		EC 92/69	
Source		ECHA	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
NOEC		0.508	mg/l
Species		Daphnia magna	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
EC50		27	mg/l
Duration of exposure		72	h
Species		Selenastrum capricornutum	
Method		OECD 201	
Source		ECHA	

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
EC10		1.084	mg/l
Duration of exposure		16	h
Species		Pseudomonas putida	
Method		DIN 38412	
Source		ECHA	

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
Value		75.7	%
Duration		28	day(s)
Method		OECD 301 B	
Source		ECHA	
Evaluation		readily biodegradable	

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts, bulk density ≥ 400 g/l	85586-07-8	287-809-4
log Pow		-2.42	
Reference temperature		20	°C
Method		OECD 107	
Source		ECHA	

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12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed.

H412 Harmful to aquatic life with long lasting effects.

Department issuing safety data sheet

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This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

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