

**COSMACOL/ELI**

Version: 17.00

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name	<b>COSMACOL/ELI</b>
INCI	C12-13 ALKYL LACTATE
REACH No.	01-2119972339-25-0000
Substance name (REACH / CLP)	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters

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

Use	raw material for cosmetic agents
Uses advised against	

**1.3 Details of the supplier of the safety data sheet**

Company	Sasol Italy S.p.A. Viale Forlanini, 23 20134 Milano Italy  Telephone: +39 02 58453-1 Telefax: +39 02 58453-205
Information (Product safety):	Telephone: +39 02 58453-1 Telefax: +39 02 58453-315
E-mail address	msds-info.italy@it.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+39 0931 988-290
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Long-term (chronic) aquatic hazard Category 3 Harmful to aquatic life with long lasting effects.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)****Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal plant.

**Remarks on classification and**

The UVCB substance with its components, was assessed for human health

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**labelling**

and environmental behavior and then classified accordingly.

**2.3 Other hazards**

No hazards to be specially mentioned.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a substance in the meaning of regulation (EC) 1907/2006.

**COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES****Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters****content:** >= 90 - <= 100 %**component type:** Active ingredient**EC-No.:** 939-514-3**Index-No.:****CAS-No.:** 1471312-26-1**REACH No.:** 01-2119972339-25-0000**Substance name (REACH / CLP):** Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters**Classification (Regulation (EC) No 1272/2008):**

Aquatic Chronic

3

H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****General advice**

No hazards which require special first aid measures.

**If inhaled**

Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.

**In case of skin contact**

Wash off with soap and water.

**In case of eye contact**

Rinse with plenty of water.

**If swallowed**

Consult a physician if necessary. Rinse mouth.

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

Symptoms: No information available.

Risks: No information available.

**4.3 Indication of any immediate medical attention and special treatment needed****Indication of any immediate medical attention and special treatment needed**

Treatment: No information available.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

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<b>Suitable extinguishing media</b>	Water, Foam, Dry powder, Carbon dioxide (CO <sub>2</sub> )
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**5.2 Special hazards arising from the substance or mixture**

<b>Specific hazards during firefighting</b>	Dangerous gases or fumes may occur in case of fire.
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**5.3 Advice for firefighters**

<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.
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<b>Further information</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Handle in accordance with good industrial hygiene and safety practice.
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<b>Special precautions</b>	Forms slippery/greasy layers with water.
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**6.2 Environmental precautions**

<b>Environmental precautions</b>	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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**6.3 Methods and materials for containment and cleaning up**

<b>Methods for cleaning up</b>	Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

<b>Advice on safe handling</b>	No special technical protective measures required.
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<b>Advice on protection against fire and explosion</b>	Normal measures for preventive fire protection.
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**7.2 Conditions for safe storage, including any incompatibilities**

<b>Requirements for storage areas and containers</b>	No special storage conditions required.
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<b>Storage class (TRGS 510)</b>	10: Combustible liquids
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<b>Other data</b>	Protect from frost, heat and sunlight.
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**7.3 Specific end use(s)**

<b>Specific use(s)</b>	This information is not available.
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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****COMPONENTS WITH WORKPLACE CONTROL PARAMETERS****National occupational exposure limits**

No data available

**EUROPEAN OCCUPATIONAL EXPOSURE LIMITS**

No data available

**DERIVED NO EFFECT LEVEL (DNEL)**

Substance name: Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	5 mg/kg	Not relevant / Not applicable
	Inhalation, long-term exposure - systemic effects	17,6 mg/m3	Not relevant / Not applicable
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, long-term exposure - systemic effects	4,34 mg/m3	Not relevant / Not applicable
	Oral, long-term exposure - systemic effects	2,5 mg/m3	Not relevant / Not applicable
	dermal, long-term exposure - local effects	2,5 mg/kg	Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable

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**PREDICTED NO EFFECT CONCENTRATION (PNEC)**

Substance name: Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters		
Environmental Compartment	Value	Note
Fresh water	0,0011 mg/l	Not relevant / Not applicable
Marine water	0,00011 mg/l	Not relevant / Not applicable
intermittent release	0,25 mg/l	Not relevant / Not applicable
treatment plant	4 mg/l	Not relevant / Not applicable
Fresh water sediment	0,00396 mg/l	Not relevant / Not applicable
Marine sediment	0,0004 mg/l	Not relevant / Not applicable
Soil	0,00073 mg/kg	Not relevant / Not applicable
food		Not relevant / Not applicable

**8.2 Exposure controls****PERSONAL PROTECTIVE EQUIPMENT****Respiratory protection**

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

**Hand protection**

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

**gloves suitable for permanent contact:**

Material: butyl-rubber  
Break through time:  $\geq$  480 min  
Layer thickness:  $\geq$  0,7 mm

**gloves suitable for splash protection:**

Material: Nitrile rubber/nitrile latex  
Break through time:  $\geq$  30 min  
Layer thickness:  $\geq$  0,4 mm

**Eye protection**

Safety glasses

**Skin and body protection**

Wear suitable protective equipment.

**Hygiene measures**

General industrial hygiene practice.

**Protective measures**

No special protective equipment required.

**ENVIRONMENTAL EXPOSURE CONTROLS**

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**General advice**

Avoid subsoil penetration.  
Do not flush into surface water or sanitary sewer system.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid; 20 °C; 1.013 hPa
<b>Form</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	Not applicable, Justification:, insoluble
<b>Melting point/freezing point</b>	-45 °C; 1.013 hPa; ASTM D 97-08
<b>Boiling point/boiling range</b>	300,1 - 345,0 °C; ASTM E 537-07
<b>Flash point</b>	155 °C; 1.013 hPa; ASTM D 93-07
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	not applicable (liquid)
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	< 0,005 hPa; 20 °C; NF T 20-048
<b>Relative vapour density</b>	> 1
<b>Density</b>	0,920 g/cm <sup>3</sup> ; 20 °C; 1.013 hPa; ASTM D 4052-96
<b>Water solubility</b>	0,004 - 0,005 g/l; 20 °C; 1.013 hPa; ASTM E 1148
<b>Partition coefficient: n-octanol/water</b>	log Pow: 5,7; 25 °C; OECD Test Guideline 117
<b>Ignition temperature</b>	No data available
<b>Viscosity, dynamic</b>	ca. 19,32 mPas; 20 °C; (calculated)
<b>Viscosity, kinematic</b>	21,0 mm <sup>2</sup> /s; 20 °C; ASTM D 7042 9,53 mm <sup>2</sup> /s; 40 °C; ASTM D446
<b>Explosive properties</b>	not expected based on structure and functional groups
<b>Oxidizing properties</b>	not expected based on structure and functional groups

**9.2 Other data**

None known.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

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<b>Note</b>	Stable at normal ambient temperature and pressure. No decomposition if stored and applied as directed.
<b>10.2 Chemical stability</b>	
<b>Note</b>	No decomposition if stored and applied as directed.
<b>10.3 Possibility of hazardous reactions</b>	
<b>Hazardous reactions</b>	None known.
<b>10.4 Conditions to avoid</b>	
<b>Conditions to avoid</b>	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
<b>10.5 Incompatible materials to avoid</b>	
<b>Materials to avoid</b>	None known.;
<b>10.6 Hazardous decomposition products</b>	
<b>Hazardous decomposition products</b>	No decomposition if stored normally.
<b>Thermal decomposition</b>	No decomposition if used as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects****Acute toxicity**

<b>Acute oral toxicity</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: LD50 Rat: > 5.000 mg/kg; OECD Test Guideline 401 Based on available data, the classification criteria are not met.
<b>Acute inhalation toxicity</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: The study is not necessary. Sufficient data are available from alternative routes of exposure.
<b>Acute dermal toxicity</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402 Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

<b>Skin irritation</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Rabbit: slightly irritating; OECD Test Guideline 404 Based on available data, the classification criteria are not met.
<b>Human experience -Skin contact</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: not irritating

**Serious eye damage/eye irritation**

<b>Eye irritation</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Rabbit: not irritating; OECD Test Guideline 405 Based on available data, the classification criteria are not met.
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**Respiratory or skin sensitisation**

<b>Sensitisation</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 Based on available data, the classification criteria are not met.
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**Germ cell mutagenicity****Genotoxicity in vitro**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
In vitro tests did not show mutagenic effects  
Category approach

**Genotoxicity in vivo**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
The study is not necessary.  
Justification:  
In vitro tests did not show mutagenic effects

**Remarks**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
Based on available data, the classification criteria are not met.

**Carcinogenicity****Remarks**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.

**Reproductive toxicity****RemarksReproductive toxicity**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
No toxicity to reproduction  
Category approach

**Teratogenicity**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
Did not show teratogenic effects in animal experiments.  
Category approach

**STOT - single exposure****Remarks**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure****Remarks**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Repeated dose toxicity**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
Rat; Oral; Subchronic toxicity  
NOAEL: 500 mg/kg (based on body weight and day)  
LOAEL: 2.500 mg/kg (based on body weight and day)  
Target Organs: Liver, Gastrointestinal tract  
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Test substance: myristyl lactate

**Aspiration hazard****Aspiration toxicity**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
Not applicable

**Toxicological information**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:  
extensive and rapid metabolism

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**



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<b>Toxicity to fish</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: LL50 (96 h) Danio rerio (zebra fish): > 100 mg/l ; static test; OECD Test Guideline 203 In the range of water solubility not toxic under test conditions.
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: EL50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l ; static test; OECD Test Guideline 202
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: NOEC (21 d) Daphnia magna (Water flea): 0,11 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211
<b>Toxicity to aquatic plants</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: ErL50 (72 h) Pseudokirchneriella subcapitata (green algae): > 10 - 100 mg/l ; OECD Test Guideline 201
<b>Toxicity to bacteria</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: NOEC (28 d) : min. 40 mg/l
<b>Toxicity to soil dwelling organisms</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: The study is not necessary. Justification: unlikely direct and indirect exposure of the soil compartment
<b>Toxicity to terrestrial flora</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: The study is not necessary. Justification: unlikely direct and indirect exposure of the soil compartment
<b>Toxicity for other terrestrial non-mammalian fauna</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: The study is not necessary. Justification: unlikely direct and indirect exposure of the soil compartment
<b>12.2 Persistence and degradability</b>	
<b>Biodegradability</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301F
<b>12.3 Bioaccumulative potential</b>	
<b>Bioaccumulation</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Bioconcentration factor (BCF): 45,8 - 61,6; calculated Bioaccumulation is unlikely.
<b>12.4 Mobility in soil</b>	
<b>Mobility</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: log Koc: 2,51 - 3,4; calculated Slightly mobile in soils
<b>12.5 Results of PBT and vPvB assessment</b>	
<b>Results of PBT assessment</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Based on available data, the classification criteria are not met.
<b>12.6 Other adverse effects</b>	
<b>General advice</b>	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Harmful to aquatic life with long lasting effects.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

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<b>Product</b>	Can be incinerated, when in compliance with local regulations.
<b>Contaminated packaging</b>	Empty remaining contents.
<b>waste code of the European Union: EWC</b>	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

**SECTION 14: TRANSPORT INFORMATION**

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**14.1 UN number**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.2 Proper shipping name**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.3 Transport hazard class**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.4 Packing group**

<b>ADR</b>	Not dangerous goods
<b>RID</b>	Not dangerous goods
<b>ADN</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>ICAO/IATA</b>	Not dangerous goods

**14.5 Environmental hazards**

<b>ADR</b>	Environmentally hazardous	no
<b>RID</b>	Environmentally hazardous	no
<b>ADN</b>	Environmentally hazardous	no
<b>IMDG</b>	Marine pollutant	no
<b>ICAO/IATA</b>	Environmentally hazardous	no

**14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

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

Remarks No information available.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS****Legislation on the control of major-accident hazards involving dangerous substances**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable

**NOTIFICATION STATUS**

Switzerland. Consolidated Inventory	CH INV	not listed (product or constituents are not listed)
US. Toxic Substances Control Act	TSCA	not listed (product or constituents are not listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	not listed (product or constituents are not listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	not listed (product or constituents are not listed)
Japan. Kashin-Hou Law List	ENCS (JP)	not listed (product or constituents are not listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances (IECSC)	INV (CN)	not listed (product or constituents are not listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

**15.2 Chemical safety assessment****Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters**

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A Chemical Safety Assessment has been carried out for this substance.

**SECTION 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

H412 Harmful to aquatic life with long lasting effects.

**Safety datasheet sections which have been updated:**

- 3. Composition/information on ingredients
- 15. Regulatory information
- 16. Other information

**Further information:**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ADN	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
AICS	Australian Inventory of Chemical Substances
ANSI	American National Standards Institute
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCS	Existing Notified Chemical Substances (Japan)
EWG	European Waste Catalogue
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
KECI	Korea Existing Chemicals Inventory
LC...	Lethal Concentration, ...%
LD...	Lethal Dose, ...%
MARPOL	International Convention for the Prevention of Pollution From Ships
NDL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIC	New Zealand Inventory of Chemicals
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative, toxic
PICCS	Philippine Inventory of Chemicals and Chemical Substances
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire de marchandises dangereuses
TG	Test Guideline
TRGS	Technische Regeln für Gefahrstoffe
TSCA	Toxic Substances Control Act



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vPvB  
WGK

very persistent, very bioaccumulative  
Wassergefährdungsklasse

### Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

#### Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000017452\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000017452_EN_01.pdf)