

COSMACOL/ELI

Version: 18.00

Revision Date 23.02.2022

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

Trade name	COSMACOL/ELI
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
E-mail address:	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 labelling

The UVCB substance with its components, was assessed for human health and environmental behavior and then classified accordingly.

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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

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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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Suitable extinguishing media	Water, Foam, Dry powder, Carbon dioxide (CO ₂)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

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

6.1 Personal precautions, protective equipment and emergency procedures

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

Environmental precautions	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

Methods for cleaning up	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.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

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

Requirements for storage areas and containers	No special storage conditions required.
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Further information on storage conditions	loading temperature :30 °Cmaximum
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Advice on common storage	Never allow product to get in contact with water during storage.
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Other data	Protect from frost, heat and sunlight.
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7.3 Specific end use(s)

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Specific use(s)

This information is not available.

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

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	dermal, long-term exposure - local effects	2,5 mg/kg	Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable

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
Sewage 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

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

Material: Nitrile rubber
Break through time: \geq 30 min
Glove thickness: \geq 0,4 mm

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).

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.

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ENVIRONMENTAL EXPOSURE CONTROLS**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**

Physical state	liquid; 20 °C; 1.013 hPa
Form	liquid
Colour	clear
Odour	characteristic
Odour Threshold	No valid method available.
pH	Not applicable, Justification:., non ionic substance
Melting point/freezing point	ca. -45 °C; 1.013 hPa; ASTM D 97-08
Boiling point/boiling range	300,1 - 345,0 °C; 1,013 hPa; ASTM E 537-07
Flash point	ca. 155 °C; 1.013 hPa; ASTM D 93-07
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0,05 hPa; 20 °C; NF T 20-048
Relative vapour density	> 1
Density	ca.0,920 g/cm ³ ; 20 °C; 1.013 hPa; ASTM D 4052-96
Water solubility	0,004 - 0,005 g/l; 20 °C; 1.013 hPa; ASTM E 1148
Partition coefficient: n-octanol/water	log Pow: ca. 5,7; 25 °C; OECD Test Guideline 117
Ignition temperature	No data available
Auto-ignition temperature	ca. 359 °C; 1,013 hPa; ASTM E659-78
Viscosity, dynamic	ca. 19,32 mPas; 20 °C; (calculated)
Viscosity, kinematic	ca. 21,0 mm ² /s; 20 °C; ASTM D 7042 ca. 9,53 mm ² /s; 40 °C; ASTM D446
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

None known.

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note	Stable at normal ambient temperature and pressure. No decomposition if stored and applied as directed.
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10.2 Chemical stability

Note	No decomposition if stored and applied as directed.
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10.3 Possibility of hazardous reactions

Hazardous reactions	None known.
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10.4 Conditions to avoid

Conditions to avoid	Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
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10.5 Incompatible materials to avoid

Materials to avoid	None known.;
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10.6 Hazardous decomposition products

Hazardous decomposition products	No decomposition if stored normally.
Thermal decomposition	No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	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.
Acute inhalation toxicity	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: The study is not necessary. Sufficient data are available from alternative routes of exposure.
Acute dermal toxicity	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

Skin irritation	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.
Human experience -Skin contact	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: not irritating

Serious eye damage/eye irritation

Eye irritation	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**Sensitisation**

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.

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**Carcinogenicity**

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.

Remarks

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

Reproductive toxicity**Reproductive toxicity**

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

RemarksReproductive toxicity

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

Teratogenicity

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

Remarks-Teratogenicity

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

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

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Toxicological information

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

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

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.

Toxicity to daphnia and other aquatic invertebrates

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

Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity

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

Toxicity to aquatic plants

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
ErL50 (72 h) Pseudokirchneriella subcapitata (green algae): > 10 - 100 mg/l ;
OECD Test Guideline 201

Toxicity to bacteria

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
NOEC (28 d) activated sludge, domestic: min. 40 mg/l

Toxicity to soil dwelling organisms

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
The study is not necessary.
Justification:
unlikely direct and indirect exposure of the soil compartment

Toxicity to terrestrial flora

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
The study is not necessary.
Justification:
unlikely direct and indirect exposure of the soil compartment

Toxicity for other terrestrial non-mammalian fauna

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
The study is not necessary.
Justification:
unlikely direct and indirect exposure of the soil compartment

12.2 Persistence and degradability**Biodegradability**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301F

12.3 Bioaccumulative potential**Bioaccumulation**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
Bioconcentration factor (BCF): 45,8 - 61,6; calculated
Bioaccumulation is unlikely.

12.4 Mobility in soil**Mobility**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
log Koc: 2,51 - 3,4; calculated
Slightly mobile in soils

12.5 Results of PBT and vPvB assessment**Results of PBT assessment**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects**General advice**

Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
Harmful to aquatic life with long lasting effects.

Endocrine disrupting potential

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

Can be incinerated, when in compliance with local regulations.

Contaminated packaging

Empty remaining contents.

Waste Code

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**14.1 UN number**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.2 Proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.3 Transport hazard class

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

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ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

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

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks	No information available.
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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
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NOTIFICATION STATUS

Australian Inventory of Industrial Chemicals	ZAU_AIIC	not listed (product or constituents are not listed)
Canadian Domestic Substances List (DSL)	DSL	not listed (product or constituents are not listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	not listed (product or constituents are not listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	not listed (product or constituents are not listed)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	not listed (product or constituents are not listed)
United States TSCA Inventory	TSCA	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**

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:

1. Identification of the substance/mixture and of the company/undertaking
7. Handling and storage
9. Physical and chemical properties
12. Ecological information
15. Regulatory information
16. Other information

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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)
EWC	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
NDSL	Non-Domestic Substances List
NOAEL	no observable adverse effect level
NOEL/NOEC	No Observed-effect level/concentration
NZIoC	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
vPvB	very persistent, very bioaccumulative
WGK	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



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