

**COSMACOL/ELI**

Version: 14.00

Revision Date 04.08.2014

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

Trade name	COSMACOL/ELI
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:	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)**

Chronic aquatic toxicity Category 3 Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

In accordance with Annex I of Directive 67/548/EEC and its amendments, this substance does not need to be classified nor labelled.

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 incineration plant.

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Remarks on classification and labelling

The UVCB substance with its components, was assessed for human health 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****component type:** Active ingredient**EC-No.:** 939-514-3**Index-No.:****CAS-No.:****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.

Other data

Synonyms: Propanoic acid, 2-hydroxy-, C12-15-alkyl esters; CAS-No.: 93925-36-1

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.

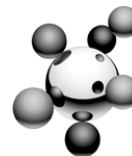
4.2 Most important symptoms and effects, both acute and delayed**Most important symptoms and effects, both acute and delayed**

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.

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

Suitable extinguishing media Water, Foam, Dry powder, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Special protective equipment for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Further information Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

Special precautions Forms slippery/greasy layers with water.

6.2 Environmental precautions

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

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, saw dust).

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.

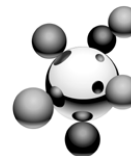
Advice on protection against fire and explosion Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers No special storage conditions required.

Storage class (TRGS 510) 10-13: German Storage Class 10 to 13

Other data Protect from frost, heat and sunlight.

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7.3 Specific end use(s)

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**

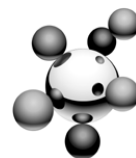
No data available

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/m ³	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/m ³	Not relevant / not applicable
	Oral, long-term exposure - systemic effects	2,5 mg/m ³	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
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 breakthrough 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
Material thickness: \geq 0,7 mm

gloves suitable for splash protection:

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

Eye protection

Safety glasses

Skin and body protection

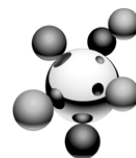
Protective suit

Hygiene measures

General industrial hygiene practice.

Protective measures

No special protective equipment required.



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ENVIRONMENTAL EXPOSURE CONTROLS

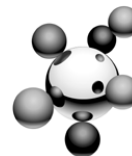
General advice Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.

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	colourless
Odour	characteristic
Odour Threshold	No data available
pH	5 - 7; 10 g/l; 20 °C
Melting point/range	ca. -20 °C; 1.013 hPa
Boiling point/boiling range	> 250 °C; 1.013 hPa
Flash point	ca. 158 °C; 1.013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	not determined
Density	ca. 0,915 g/cm ³ ; 20 °C; 1.013 hPa
Relative density	No data available
Bulk density	not determined
Solubility in other solvents	Medium: Alcohol; 20 °C; negligible Medium: Acetone; 20 °C; partly soluble Medium: Hexane; 20 °C; soluble
Water solubility	20 °C; 1.013 hPa; negligible
Partition coefficient: n-octanol/water	log Pow : > 4; 20 °C
Ignition temperature	No data available
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 21 mPas; 20 °C
Explosive properties	Not explosive
Oxidizing properties	not expected based on structure and functional groups

9.2 Other data

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None know n.

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

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

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions None know n.

10.4 Conditions to avoid

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

10.5 Incompatible materials to avoid

Materials to avoid None know n.;

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.

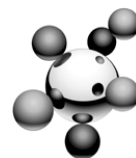
Acute dermal toxicity Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters:
LD50 rat: > 2.000 mg/kg; OECD Test Guideline 402
Based on available data, the classification criteria are not met.

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

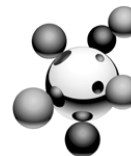
Serious eye damage/eye irritation

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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.
Respiratory or skin sensitisation	
Sensitisation	Propanoic acid, 2-hydroxy-, C12-13-branched-alkyl esters: Maximisation Test (GPMT) 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	
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	
Remarks Reproductive 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



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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) : 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 K_{oc}: 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:
Based on available data, the classification criteria are not met.

12.6 Other adverse effects

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General advicePropanoic 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**

Product	Can be incinerated, when in compliance with local regulations.
Contaminated packaging	Empty remaining contents.
waste code of the European Union: EWC	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

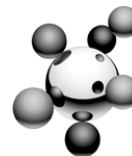
14.3 Transport hazard class

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

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

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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.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****NATIONAL/OTHER REGULATIONS**

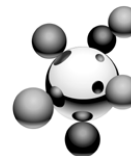
Directive 96/82/EC on the control of major-accident hazards involving dangerous substances list entry in the directive: Directive 96/82/EC does not apply

NOTIFICATION STATUS

Switzerland. Consolidated Inventory	CH INV	not listed (product or constituents are not listed)
US. Toxic Substances Control Act	TSCA	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	y (positive listing)
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)	y (positive listing)
China. Inventory of Existing Chemical Substances	INV (CN)	y (positive listing)

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



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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.

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
IUAPC	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



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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