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# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name COSMACOL/EMI.

**INCI** DI-C12-13 ALKYL MALATE **REACH No.** 01-0000016057-73-0000

Substance name (REACH/ CLP) bis (C12-C13) alkyl-2-hydroxybutandioate

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

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Remarks on classification and The UVCB substance with its components, was assessed for human health

labelling and environmental behavior and then classified accordingly.

2.3 Other hazards

No hazards to be specially mentioned.



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

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

CHEMICAL CHARACTERIZATION

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters

component type: Active ingredient

EC-No.: 413-390-6 Index-No.: CAS-No.: 149144-85-4

**REACH No.**: 01-0000016057-73-0000

Substance name (REACH/CLP): bis(C12-C13)alkyl-2-hydroxybutandioate

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

No dangerous ingredients according to Regulation (EC) No. 1907/2006

#### **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

medical attention and spec treatment needed Treatment: No information available.

### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, Dry pow der, 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.



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5.3 Advice for firefighters

Special protective equipment

for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Prevent fire extinguishing water from contaminating surface water or the ground Further information

w ater system. In the event of fire, cool tanks with water spray.

### **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

Use mechanical handling equipment. Soak up with inert absorbent material (e.g. Methods for cleaning up

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

and containers

Requirements for storage areas No special storage conditions required.

Storage class (TRGS 510) 10: Combustible liquids not in Storage Class 3

Other data Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) 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)

bis (C12-C13)alkyl-2-hydroxybutandioate

End Use	Exposure routes	Value	Note
	,		This information is not available.

#### PREDICTED NO EFFECT CONCENTRATION (PNEC)

bis (C12-C13)alkyl-2-hydroxybutandioate

Environmental Compartment	Value	Note
		This information is not available.

### 8.2 Exposure controls

#### **ENGINEERING MEASURES**

Provide sufficient air exchange and/or exhaust in w ork rooms.

#### PERSONAL PROTECTIVE EQUIPMENT

No personal respiratory protective equipment normally required. In inadequately Respiratory protection

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. w here aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

The choice of an appropriate glove does not only depend on its material but also Hand protection

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 aw are 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: >= 480 min Material thickness: >= 0,7 mm



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### gloves suitable for splash protection:

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

Eye protectionSafety glassesSkin and body protectionProtective suit

**Hygiene measures** General industrial hygiene practice.

Protective measures No special protective equipment required.

### **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 not applicable

Melting point/range <-20 °C; 1.013 hPa

Boiling point/boiling range > 270 °C; 1.013 hPa

Flash point 153 °C; 1.013 hPa
Evapouration rate no data available
Flam mability (solid, gas) not applicable

Lower explosion limitno data availableUpper explosion limitno data availableVapour pressure< 0,001 hPa</th>Relative vapour density16,76

**Density** 0,927 g/cm3; 20 °C; 1.013 hPa **Solubility in other solvents** Medium: Alcohol; 20 °C; soluble

Medium: Acetone; 20 °C; soluble

Medium: Hydrocarbons; 20 °C; soluble

 $\begin{tabular}{ll} \textbf{Water solubility} & 0,00105 \text{ g/l; } 20 \text{ °C; } 1.013 \text{ hPa} \\ \end{tabular}$ 

#### **EC-SAFETY DATA SHEET**



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Partition coefficient: n-

log Pow: 6,4

octanol/water

329 °C

Ignition temperature Auto-ignition temperature

no data available

Viscosity, kinematic

95,5 mm2/s; 20 °C

33,8 mm2/s; 40 °C

Explosive properties

Not explosive

no data available Oxidizing properties

9.2 Other data

None know n.

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions Hazardous decomposition products formed under fire conditions.

No dangerous reaction known under conditions of normal use.

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 no data available;

10.6 Hazardous decomposition products

Hazardous decomposition

No decomposition if stored normally.

products

Thermal decomposition No decomposition if used as directed.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1 Information on toxicological effects

Acute toxicity

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: LD50 rat: > 5.000 mg/kg; OECD Test Guideline 401 Acute oral toxicity

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

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: Acute inhalation toxicity

study scientifically unjustified

Justification:



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Negligible or unlikely exposure pathways

Sufficient data are available from alternative routes of exposure.

Acute dermal toxicity Butanedioic acid, hydroxy, di-(C12-C13) alkyl esters:

LD50 rat: > 2.000 mg/kg; Directive 67/548/EEC, Annex V, B.3. Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Skin irritation Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

rabbit: not irritating; OECD Test Guideline 404

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

Hum an experience -Skin

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

not irritating

Serious eye damage/eye irritation

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: rabbit: slightly irritating; OECD Test Guideline 405 Eye irritation

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

Respiratory or skin sensitisation

Sensitisation Butanedioic acid, hydroxy,di-(C12-C13) 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 Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

In vitro tests did not show mutagenic effects

Genotoxicity in vivo Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

In vivo tests did not show mutagenic effects

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: Remarks

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

Carcinogenicity

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: Remarks

The substance has been shown to be not genotoxic, therefore it is not expected to

have a carcinogenic potential.

Reproductive toxicity

Butanedioic acid, hydroxy, di-(C12-C13) alkyl esters: Reproductive toxicity

rat; Oral

NOAEL ((parents)): 170 mg/kg (based on body w eight and day)

NOAEL (F1): 170 mg/kg (based on body w eight and day); OECD Test Guideline

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate

RemarksReproductive

toxicity

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

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

Teratogenicity Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

rat; Oral

NOAEL: 170 mg/kg (based on body w eight and day)

NOAEL (dam): 170 mg/kg (based on body w eight and day); OECD Test Guideline

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy). Test substance: Bis(2-Ethylhexyl)adipate



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**Remarks-Teratogenicity** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

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

STOT - single exposure

**Remarks** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure

**Remarks** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

Repeated dose toxicity Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

mouse; Oral; 91 d

NOAEL: 200 mg/kg (based on body w eight and day); OECD Test Guideline 408

Symptoms: reduced body w eight gain

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Bis(2-Ethylhexyl)adipate

Aspiration hazard

**Aspiration toxicity** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

not applicable

**Toxicological information** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

None know n.

### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

**Toxicity to fish** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

LC50 (96 h) Brachydanio rerio: > 100 mg/l; OECD Test Guideline 203

Toxicity to fish - Chronic

toxicity

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

study scientifically unjustified

Justification:

In the range of water solubility not toxic under test conditions.

Toxicity to daphnia and other

aquatic invertebrates

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

EC50 (48 h) Daphnia magna (Water flea): > 100 mg/l; static test; OECD Test

Guideline 202

Toxicity to daphnia and other aquatic invertebrates - Chronic

toxicity

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

study scientifically unjustified

Justification:

In the range of water solubility not toxic under test conditions.

**Toxicity to aquatic plants**Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

ErC50 (72 h) Selenastrum capricornutum: > 100 mg/l; static test; OECD Test

Guideline 201

**Toxicity to bacteria** Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

The study is not necessary.

Justification:

In the range of water solubility not toxic under test conditions.

Readily biodegradable.



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Toxicity to soil dwelling

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: study scientifically unjustified organisms

Justification:

Readily biodegradable.

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: Toxicity to terrestrial flora

study scientifically unjustified

Justification:

Readily biodegradable.

Toxicity for other terrestrial non-mammalian fauna

12.2 Persistence and degradability

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

no data available

Biodegradability Butanedioic acid, hydroxy, di-(C12-C13) alkyl esters:

Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301F

12.3 Bioaccumulative potential

Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters: Bioconcentration factor (BCF): 195,4; calculated Bioaccum ulation

Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

Adsorption/Soil; log Koc: 5,02; calculated

strong adsorption to soil

immobile

12.5 Results of PBT and vPvB assessment

Results of PBT assessment Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

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

12.6 Other adverse effects

General advice Butanedioic acid, hydroxy,di-(C12-C13) alkyl esters:

None know n

### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

**Product** Can be incinerated, when in compliance with local regulations.

Contam inated 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

ΔDR Not dangerous goods RID Not dangerous goods



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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

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

list entry in the directive: Directive 96/82/EC does not apply



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#### substances

#### **NOTIFICATION STATUS**

US. Toxic Substances Control Act	TSCA	n (Negative listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	n (Negative listing)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	n (Negative listing)
New Zealand. Inventory of Chemicals (NZloC), as published by ERMA New Zealand	NZIOC	n (Negative listing)
Japan. Kashin-Hou Law List	ENCS (JP)	n (Negative listing)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	n (Negative listing)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	n (Negative listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	n (Negative listing)
China. Inventory of Existing Chemical Substances	INV (CN)	y (positive listing)
Sw itzerland. Consolidated Inventory	CH INV	n (Negative 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

### bis (C12-C13)alkyl-2-hydroxybutandioate

A Chemical Safety Assessment is not required for this substance.

### **SECTION 16: OTHER INFORMATION**

### Safety datas heet sections which have been updated:

- 5. Firefighting measures
- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 10. Stability and reactivity
- 11. Toxicological information
- 12. Ecological information
- 15. Regulatory information

#### Further information:

The information provided in this Safety Data Sheet is correct to the best of our know ledge, 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



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replace any product information or product specification.

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

Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure Accord européen relatif au transport international des marchandises Dangereuses par Route

ADN ADR

AICS Australian Inventory of Chemical Substances ANSI American National Standards Institute

ASTM American Society of Testing and Materials (US)

**BCF** Bioconcentration factor

Regulation on Classification, Labelling and Packaging of Substances and Mixtures Deutsches Institut für Normung

CLP DNEL Derived No-Effect Level DSL Domestic Substances List EC. Effect concentration ... %

**ENCS** Existing Notified Chemical Substances (Japan) European Waste Catalogue International Air Transport Association EWC IATA 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 NZIoC New Zealand Inventory of Chemicals

OECD Organisation for Economic Co-operation and Development

persistent, bioaccumulative, toxic PBT

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

Test Guideline TG

TRGS Technische Regeln für Gefahrstoffe TSCA Toxic Substances Control Act very persistent, very bioaccumulative Wassergefährdungsklasse vPvB WGK