

MARLIPAL O 13/20

Version: 8.02

Revision Date 02.12.2019

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

Trade name	MARLIPAL O 13/20
REACH No.	01-2119976362-32-0000
Substance name (REACH / CLP)	Isotridecanol, ethoxylated

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

Use	Industrial use emulsifying agent surface-active substance raw material for washing and cleaning agents raw material for textile auxiliary agents
Uses advised against	

1.3 Details of the supplier of the safety data sheet

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg Germany
	Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700
Information (Product safety):	Telephone: + 49 (0) 23 65 - 49 47 05 Telefax: + 49 (0) 23 65 - 49 92 40
E-mail address	msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number	+ 49 (0) 23 65 - 49 22 32
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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.

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Hazardous components which must be listed on the label:

- Isotridecanol, ethoxylated

2.3 Other hazards

None known.

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
isotridecanol, ethoxylated (< 2.5 EO)
content: ≥ 90 - ≤ 100 %

component type: Active ingredient

EC-No.: 500-241-6

Index-No.:

CAS-No.: 69011-36-5

REACH No.: 01-2119976362-32-0000

Substance name (REACH / CLP): Isotridecanol, ethoxylated

Classification (Regulation (EC) No 1272/2008):	Aquatic Chronic	3	H412
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For the full text of the H-Statements mentioned in this Section, see Section 16.

Other data

Synonyms: isotridecanol, ethoxylated; CAS-No.: 9043-30-5

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
General advice

If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.

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 immediately with plenty of water. Consult a physician if necessary.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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

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Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Foam, 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 Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

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 Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.

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 Wear personal protective equipment.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion Normal measures for preventive fire protection.
Do not spray on a naked flame or any incandescent material.

Fire-fighting class B: Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

7.2 Conditions for safe storage, including any incompatibilities

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Requirements for storage areas and containers	Keep tightly closed in a dry and cool place.
Storage class (TRGS 510)	10: Combustible liquids not in Storage Class 3
Other data	Stable at normal ambient temperature and pressure.

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)

Substance name: Isotridecanol, ethoxylated			
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	2080 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	294 mg/m ³	
	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

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	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	1250 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	87 mg/m3	
	Oral, long-term exposure - systemic effects	25 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable

Substance name: Isotridecanol, ethoxylated			
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	2080 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	294 mg/m3	
	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	
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		1250 mg/kg	based on body weight and day
Inhalation, long-term exposure - systemic effects		87 mg/m3	
Oral, long-term exposure - systemic effects		25 mg/kg	based on body weight and day
dermal, long-term exposure - local effects			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: Isotridecanol, ethoxylated		
Environmental Compartment	Value	Note
Fresh water	0,074 mg/l	
Marine water	0,0074 mg/l	
intermittent release	0,015 mg/l	
Sewage treatment plant	1,4 mg/l	
Fresh water sediment	0,604 mg/kg	based on dry weight
Marine sediment	0,0604 mg/kg	based on dry weight
Soil	0,1 mg/kg	based on dry weight
food		Not relevant / Not applicable

Substance name: Isotridecanol, ethoxylated		
Environmental Compartment	Value	Note
Fresh water	0,074 mg/l	
Marine water	0,0074 mg/l	
intermittent release	0,015 mg/l	
Sewage treatment plant	1,4 mg/l	
Fresh water sediment	0,604 mg/kg	based on dry weight
Marine sediment	0,0604 mg/kg	based on dry weight
Soil	0,1 mg/kg	based on dry weight
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: >= 480 min

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Layer thickness: $\geq 0,7$ mm**gloves suitable for splash protection:**

Material: Nitrile rubber/nitrile latex

Break through time: ≥ 30 minLayer thickness: $\geq 0,4$ mm

Eye protection	Tightly fitting safety goggles, Safety glasses with side-shields
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke.
Protective measures	Avoid contact with the skin and the eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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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	cloudy
Odour	mild
Odour Threshold	No data available
pH	5 - 7; 20 g/l; 20 °C
pour point	< -7 °C
Boiling point/boiling range	Not applicable
Flash point	136 °C; DIN 51376
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	Not relevant / Not applicable Justification: Product is not classified as highly or extremely flammable.
Upper explosion limit	Not relevant / Not applicable Justification: Product is not classified as highly or extremely flammable.
Vapour pressure	< 0,05 hPa; 50 °C
Relative vapour density	ca. 9
Density	ca.0,88 g/cm ³ ; 50 °C
Water solubility	20 °C; completely soluble

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Partition coefficient: n-octanol/water	Not relevant / Not applicable Justification: surface-active substance
Ignition temperature	ca. 230 °C; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	ca. 15 mPas; 50 °C; Brookfield method
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups
Molar mass	ca. 280 g/mol
Surface tension	30 mN/m; 20 mg/l; 25 °C

9.2 Other data

None known.

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** None known.**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** Strong acids and oxidizing agents;**10.6 Hazardous decomposition products****Hazardous decomposition products** No decomposition if stored and applied as directed.**Thermal decomposition** Hazardous decomposition products formed under fire conditions.**SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects**Acute toxicity****Acute oral toxicity** isotridecanol, ethoxylated (< 2.5 EO):
LD50 Rat: > 2.000 mg/kg
(literature value)
Based on available data, the classification criteria are not met.**Acute inhalation toxicity** isotridecanol, ethoxylated (< 2.5 EO):

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	LC50 Rat: > 1,6 mg/l; 4 h; OECD Test Guideline 403 Test atmosphere: dust/mist maximal attainable concentration Category approach Based on available data, the classification criteria are not met.
Acute dermal toxicity	isotridecanol, ethoxylated (< 2.5 EO): LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402 (literature value) Category approach Based on available data, the classification criteria are not met.
Skin corrosion/irritation	
Skin irritation	isotridecanol, ethoxylated (< 2.5 EO): Rabbit: No skin irritation; OECD Test Guideline 404 own test results/literature values Category approach Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	
Eye irritation	isotridecanol, ethoxylated (< 2.5 EO): Rabbit: No eye irritation; OECD Test Guideline 405 own test results/literature values Category approach Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	
Sensitisation	isotridecanol, ethoxylated (< 2.5 EO): Maximisation Test Guinea pig: not sensitizing (literature value) Category approach Based on available data, the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity in vitro	isotridecanol, ethoxylated (< 2.5 EO): In vitro tests did not show mutagenic effects own test results/literature values Category approach
Genotoxicity in vivo	isotridecanol, ethoxylated (< 2.5 EO): In vivo tests did not show mutagenic effects (literature value) Category approach
Remarks	isotridecanol, ethoxylated (< 2.5 EO): Based on available data, the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	isotridecanol, ethoxylated (< 2.5 EO): not expected based on structure and functional groups The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
Reproductive toxicity	
Reproductive toxicity	isotridecanol, ethoxylated (< 2.5 EO): Animal testing did not show any effects on fertility. Category approach (literature value)
RemarksReproductive toxicity	isotridecanol, ethoxylated (< 2.5 EO): Based on available data, the classification criteria are not met.
Teratogenicity	isotridecanol, ethoxylated (< 2.5 EO): Did not show teratogenic effects in animal experiments.

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	Category approach (literature value)
Remarks-Teratogenicity	isotridecanol, ethoxylated (< 2.5 EO): Based on available data, the classification criteria are not met.
STOT - single exposure	
Remarks	isotridecanol, ethoxylated (< 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	isotridecanol, ethoxylated (< 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	isotridecanol, ethoxylated (< 2.5 EO): Rat; oral feed; 90-day NOAEL: 500 mg/kg (based on body weight and day) (literature value) Category approach
Aspiration hazard	
Aspiration toxicity	isotridecanol, ethoxylated (< 2.5 EO): Not applicable
Toxicological information	isotridecanol, ethoxylated (< 2.5 EO): Toxicokinetics The substance is expected to be rapidly absorbed and excreted. (literature value) Category approach

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	isotridecanol, ethoxylated (< 2.5 EO): LC50 (96 h) Brachydanio rerio (zebrafish): > 1 - 10 mg/l ; semi-static test; OECD Test Guideline 203 Category approach
Toxicity to fish - Chronic toxicity	isotridecanol, ethoxylated (< 2.5 EO): EC20 (30 d) Pimephales promelas (fathead minnow): 1,097 mg/l; mortality; QSAR (literature value)
Toxicity to daphnia and other aquatic invertebrates	isotridecanol, ethoxylated (< 2.5 EO): EC50 (48 h) Daphnia magna (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202 Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	isotridecanol, ethoxylated (< 2.5 EO): EC20 (21 d) Daphnia magna (Water flea): 0,74 mg/l; reproduction rate; QSAR (literature value)
Toxicity to aquatic plants	isotridecanol, ethoxylated (< 2.5 EO): EC20 (72 h) Desmodesmus subspicatus (green algae): 0,979 mg/l ; Growth rate; QSAR; (literature value) isotridecanol, ethoxylated (< 2.5 EO): EC50 (72 h) Desmodesmus subspicatus (green algae): > 1 - 10 mg/l ; static test;

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Toxicity to bacteria	<p>OECD Test Guideline 201; Category approach</p> <p>isotridecanol, ethoxylated (< 2.5 EO): EC50 (3 h) activated sludge: 140 mg/l; Respiration inhibition Category approach</p> <p>isotridecanol, ethoxylated (< 2.5 EO): EC10 (16,9 h) Pseudomonas putida: > 10.000 mg/l; Cell multiplication inhibition test; DIN 38 412 Part 8 Category approach</p>
Toxicity to soil dwelling organisms	<p>isotridecanol, ethoxylated (< 2.5 EO): LC50 (14 d) Eisenia fetida (earthworms): > 1.000 mg/kg; mortality; artificial soil Category approach</p>
Toxicity to terrestrial flora	<p>isotridecanol, ethoxylated (< 2.5 EO): emergence, growth; NOEC: > 10 mg/l; OECD Test Guideline 208 Category approach</p>
Toxicity for other terrestrial non-mammalian fauna	<p>isotridecanol, ethoxylated (< 2.5 EO): The study is not necessary. Justification: Readily biodegradable.</p>
12.2 Persistence and degradability	
Biodegradability	<p>isotridecanol, ethoxylated (< 2.5 EO): Biodegradable; > 60 %; 60 d; anaerobic; OECD 311 or equivalent test method Category approach own test results/literature values</p> <p>isotridecanol, ethoxylated (< 2.5 EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B Category approach</p>
12.3 Bioaccumulative potential	
Bioaccumulation	<p>isotridecanol, ethoxylated (< 2.5 EO): Pimephales promelas (fathead minnow); 72 h; 21 °C; Bioconcentration factor (BCF): 232,5 (literature value) Category approach Bioaccumulation is unlikely.</p>
12.4 Mobility in soil	
Mobility	<p>isotridecanol, ethoxylated (< 2.5 EO): Adsorption/Soil; Koc: 238 - 1831; QSAR (literature value) Moderately mobile in soils</p>
12.5 Results of PBT and vPvB assessment	
Results of PBT assessment	<p>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</p> <p>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</p>
Results of PBT assessment	<p>isotridecanol, ethoxylated (< 2.5 EO): This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB). Based on available data, the classification criteria are not met.</p>
12.6 Other adverse effects	

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General advice

isotridecanol, ethoxylated (< 2.5 EO):
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.

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

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no

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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

Ship type	2
Pollution category	Y
Remarks	MARPOL NAME: Alcohol (C12–C16) poly(1-6) ethoxylates

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

Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia Inventory of Chemical Substances (AICS)	AICS	listed (product or constituents are listed)
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	listed (product or constituents are listed)
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	listed (product or constituents are listed)
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC	listed (product or constituents are listed)
Taiwan Chemical Substance Inventory (TCSI)	TCSI	listed (product or constituents are listed)
United States TSCA Inventory	TSCA	listed (product or constituents are 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.

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15.2 Chemical safety assessment

Isotridecanol, ethoxylated

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:

- 2. Hazards identification
- 15. Regulatory 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)
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

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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.

Isotridecanol, ethoxylated

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000007924_EN_01.pdf
