

**NACOL 14 - 98 RSPO-MB**

Version: 2.01

Revision Date 2021/12/20

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

Trade name	NACOL 14 - 98 RSPO-MB
REACH No.	01-2119485910-33-0000
Substance name (REACH / CLP)	Tetradecanol

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

Use	Cosmetic agent Raw material for cosmetic products Personal care Cosmetic additive
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: msds-info.germany@de.sasol.com

**1.4 Emergency telephone number**

Emergency telephone number	+44 1235 239670 +44 1235 239671 +1 215 207 0061 +65 3158 1074 +44 1865 407333	Europe Middle East, Africa North America, South America Asia Pacific Region Global (english)
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**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Eye irritation Category 2	Causes serious eye irritation.
Long-term (chronic) aquatic hazard Category 1	Very toxic to aquatic life with long lasting effects.

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

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### Hazard pictograms



### Signal word

Warning

### Hazard statements

H319

Causes serious eye irritation.

H410

Very toxic to aquatic life with long lasting effects.

### Precautionary statements

P264

Wash skin thoroughly after handling.

P273

Avoid release to the environment.

P280

Wear eye protection/ face protection.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

P391

Collect spillage.

P501

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

### 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

#### tetradecanol

content:  $\geq 90$  -  $\leq 100$  %

component type: Active ingredient

EC-No.: 204-000-3

Index-No.:

CAS-No.: 112-72-1

REACH No.: 01-2119485910-33-0000

Substance name (REACH / CLP): tetradecanol

Classification (Regulation

Eye Irrit. 2

H319

(EC) No 1272/2008):

Aquatic Chronic

1

H410

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

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

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	physician.
<b>In case of skin contact</b>	Wash off immediately with plenty of water. Consult a physician if necessary.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.
<b>If swallowed</b>	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

<b>Most important symptoms and effects, both acute and delayed</b>	Symptoms: No information available. Risks: No information available.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Indication of any immediate medical attention and special treatment needed</b>	Treatment: No information available.
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### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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#### 5.2 Special hazards arising from the substance or mixture

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

<b>Special protective equipment for firefighters</b>	Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.
<b>Further information</b>	Prevent fire extinguishing water from contaminating surface water or the ground water system.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

<b>Personal precautions</b>	Use personal protective equipment.
<b>Special precautions</b>	Forms slippery/greasy layers with water.

#### 6.2 Environmental precautions

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

<b>Methods for cleaning up</b>	Use mechanical handling equipment. The material taken up must be disposed of in accordance with regulations. Molten form Allow to solidify, use mechanical handling equipment.
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#### 6.4 Reference to other sections

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For personal protection see section 8.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

<b>Advice on safe handling</b>	Wear personal protective equipment.
<b>Advice on protection against fire and explosion</b>	No special protective measures against fire required.
<b>Fire-fighting class</b>	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

<b>Requirements for storage areas and containers</b>	No special storage conditions required.
<b>Further information on storage conditions</b>	Protect from frost, heat and sunlight.
<b>Other data</b>	Stable at normal ambient temperature and pressure.

#### 7.3 Specific end use(s)

<b>Specific use(s)</b>	This information is not available.
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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

##### National occupational exposure limits

Control parameters / Substance name	Typ	Control parameters	Update	Basis
tetradecanol	AGW AGW	178 mg/m <sup>3</sup> 20 ppm	2013-09-19 2013-09-19	Germany. Occupational Exposure Limit Values - TRGS 900 (AGW)
AGS: Committee on Hazardous Substances (Germany) Sum of vapor and aerosols.				

Contains no substances with occupational exposure limit values.

##### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

##### DERIVED NO EFFECT LEVEL (DNEL)

Substance name: tetradecanol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure -		No hazard identified

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	systemic effects		
	Inhalation, Acute/short-term exposure - systemic effects	220 mg/m3	
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		No hazard identified
	dermal, long-term exposure - systemic effects	89 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	313 mg/m3	
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects	178 mg/m3	
Consumers	dermal, Acute/short-term exposure - systemic effects		No hazard identified
	Inhalation, Acute/short-term exposure - systemic effects		No hazard identified
	Oral, Acute/short-term exposure - systemic effects		No hazard identified
	dermal, Acute/short-term exposure - local effects		No hazard identified
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	44.4 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	77 mg/m3	
	Oral, long-term exposure - systemic effects	44.4 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		No hazard identified
	Inhalation, long-term exposure - local effects		No hazard identified
Workers	Eye contact,		Low hazard
Consumers	Eye contact,		Low hazard

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### PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: tetradecanol		
Environmental Compartment	Value	Note
Fresh water	0.001 mg/l	
Marine water	0 mg/l	
Sewage treatment plant		No hazard identified
Air		No hazard identified
Fresh water sediment	2.14 mg/kg	based on dry weight
Marine sediment	0.214 mg/kg	based on dry weight
Soil	0.428 mg/kg	based on dry weight
food		No hazard identified

### 8.2 Exposure controls

#### ENGINEERING MEASURES

Provide sufficient air exchange and/or exhaust in work rooms.

#### 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

Goggles

##### Skin and body protection

Wear suitable protective equipment.

##### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.

##### Protective measures

Avoid contact with eyes.

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	solid; 20 °C; 1,013 hPa
<b>Form</b>	solid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	Justification:, Not applicable, insoluble
<b>Melting point/range</b>	ca. 36 - 39 °C; DIN 53175
<b>Boiling point/boiling range</b>	ca. 270 - 290 °C; 1,013 hPa
<b>Flash point</b>	ca. 145 °C; DIN EN ISO 2719
<b>Evaporation rate</b>	Not relevant / Not applicable Justification: Solid
<b>Flammability (solid, gas)</b>	not auto-flammable
<b>Lower explosion limit</b>	Not relevant / Not applicable Justification: Solid
<b>Upper explosion limit</b>	Not relevant / Not applicable Justification: Solid
<b>Vapour pressure</b>	< 1.000 hPa; 20 °C
<b>Relative vapour density</b>	Not relevant / Not applicable, Justification: Solid
<b>Density</b>	ca.0.8 g/cm <sup>3</sup> ; 60 °C; DIN 51757
<b>Relative density</b>	No data available
<b>Water solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water</b>	log Pow: 5.5
<b>Ignition temperature</b>	ca. 260 °C; ASTM E 659
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	ca. 6.4 mPas; 60 °C
<b>Explosive properties</b>	Constituents do not contain chemical groups associated with explosivity.
<b>Oxidizing properties</b>	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.

**10.2 Chemical stability**

**Note** No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions** Incompatible with oxidizing agents.  
Hazardous decomposition products formed under fire conditions.

**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 oxidizing agents;

**10.6 Hazardous decomposition products**

**Hazardous decomposition products** No decomposition if stored and applied as directed.

**Thermal decomposition** Stable under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

**Acute oral toxicity** tetradecanol:  
LD50 Rat: > 5,000 mg/kg  
Based on available data, the classification criteria are not met.  
The substance or mixture has no acute oral toxicity

**Acute inhalation toxicity** tetradecanol:  
LC50 Rat: > 1.5 mg/l; 1 h  
Based on available data, the classification criteria are not met.  
The substance or mixture has no acute inhalation toxicity

**Acute dermal toxicity** tetradecanol:  
LD50 Rabbit: > 5,000 mg/kg;  
Target Organs: Skin  
Symptoms: Local irritation  
Based on available data, the classification criteria are not met.  
The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

**Skin irritation** tetradecanol:  
Human: not irritating  
(literature value)  
Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation**



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**Eye irritation** tetradecanol:  
Rabbit: irritating; OECD Test Guideline 405  
Causes serious eye irritation.

### Respiratory or skin sensitisation

**Sensitisation** tetradecanol:  
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406  
(literature value)  
Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity in vitro** tetradecanol:  
In vitro tests did not show mutagenic effects  
(literature value)  
Category approach

**Genotoxicity in vivo** tetradecanol:  
In vivo tests did not show mutagenic effects  
(literature value)  
Category approach

**Remarks** tetradecanol:  
Based on available data, the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** tetradecanol:  
The substance has been shown to be not genotoxic, therefore it is not expected to  
have a carcinogenic potential.  
Category approach

### Reproductive toxicity

**Reproductive toxicity** tetradecanol:  
Rat; Oral; 55-day  
Animal testing did not show any effects on fertility.  
(literature value)  
The data are derived from the evaluations or test results achieved with similar  
products (conclusion by analogy).  
Test substance: dodecan-1-ol

**RemarksReproductive toxicity** tetradecanol:  
Based on available data, the classification criteria are not met.

**Teratogenicity** tetradecanol:  
Rat; Oral  
Did not show teratogenic effects in animal experiments.  
(literature value)  
Category approach

**Remarks-Teratogenicity** tetradecanol:  
Based on available data, the classification criteria are not met.

### STOT - single exposure

**Remarks** tetradecanol:  
The substance or mixture is not classified as specific target organ toxicant, single  
exposure.

### STOT - repeated exposure

**Remarks** tetradecanol:  
The substance or mixture is not classified as specific target organ toxicant,  
repeated exposure.

**Repeated dose toxicity** tetradecanol:  
Rat; oral feed; 90-day  
NOAEL: 3,548 mg/kg (based on body weight and day)

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(literature value)  
 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
 Test substance: Alcohols, C14-15- branched and linear

### Aspiration hazard

**Aspiration toxicity** tetradecanol:  
 Not applicable

**Toxicological information** tetradecanol:  
 Toxicokinetics  
 The substance is poorly absorbed via skin.  
 The substance is metabolised and excreted.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** tetradecanol:  
 LC50 (96 h) Oncorhynchus mykiss (rainbow trout): > 1 mg/l ; semi-static test;  
 OECD Test Guideline 203  
 (literature value)

**Toxicity to fish - Chronic toxicity** tetradecanol:  
 study scientifically unjustified

**Toxicity to daphnia and other aquatic invertebrates** tetradecanol:  
 Daphnia magna (Water flea) ; semi-static test; OECD Test Guideline 202  
 In the range of water solubility not toxic under test conditions.  
 (literature value)

**Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity** tetradecanol:  
 EC10 (21 d) Daphnia magna (Water flea): 0.0063 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211  
 (literature value)

**Toxicity to aquatic plants** tetradecanol:  
 Desmodesmus subspicatus (green algae) ; Growth rate; static test; In the range of water solubility not toxic under test conditions.  
 (literature value)

**Toxicity to bacteria** tetradecanol:  
 The substance is not to be considered to be inhibitory to bacteria.  
 Category approach

**Toxicity to soil dwelling organisms** tetradecanol:  
 LC50 (72 h) Caenorhabditis elegans, Worm (Nematoda): > 1,000 mg/kg; mortality  
 (literature value)

tetradecanol:  
 EC50 (7 d) Folsomia candida, Arthropod (Collembola): 530 mg/kg; Immobilization  
 (literature value)

**Toxicity to terrestrial flora** tetradecanol:  
 No data available

### 12.2 Persistence and degradability

**Biodegradability** tetradecanol:  
 Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B  
 (literature value)

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tetradecanol:  
Biodegradable; > 60 %; 56 d; anaerobic  
Category approach  
(literature value)

### 12.3 Bioaccumulative potential

#### Bioaccumulation

tetradecanol:  
Fish; Bioconcentration factor (BCF): 190 - 1,000; QSAR  
Bioaccumulation is unlikely.  
(literature value)

### 12.4 Mobility in soil

#### Mobility

tetradecanol:  
Adsorption/Soil/Sewage sludge; Koc: 33983; log Koc: 4.53; OECD Test Guideline  
121  
(literature value)  
immobile  
strong adsorption to soil  
The substance and its relevant degradation products decompose rapidly.

### 12.5 Results of PBT and vPvB assessment

#### Results of PBT assessment

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.

#### Results of PBT assessment

tetradecanol:  
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).

### 12.6 Other adverse effects

#### General advice

tetradecanol:  
Very toxic 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.

#### 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

3077

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RID	3077
ADN	3077
IMDG	3077
ICAO/IATA	3077

### 14.2 Proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tetradecanol)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tetradecanol)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tetradecanol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tetradecanol)
ICAO/IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (tetradecanol)

### 14.3 Transport hazard class

ADR	9
RID	9
ADN	9
IMDG	9
ICAO/IATA	9

### 14.4 Packing group

ADR	III
RID	III
ADN	III
IMDG	III
ICAO/IATA	III

### 14.5 Environmental hazards

ADR	Environmentally hazardous	yes
RID	Environmentally hazardous	yes
ADN	Environmentally hazardous	yes
IMDG	Marine pollutant	yes
ICAO/IATA	Environmentally hazardous	yes

### 14.6 Special precautions for user

ADR	Hazard Identification Number	90
	Labels	9
	Tunnel restriction code	(-)
IMDG	Labels	9
	EmS Number 1	F-A
	EmS Number 2	S-F
ICAO/IATA	Labels	9

### 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

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### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Occupational restrictions** Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

#### 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:: ENVIRONMENTAL HAZARDS; E1  
Qualifying quantity 1: 100 t; Qualifying quantity 2: 200 t;

#### NOTIFICATION STATUS

Australian Inventory of Industrial Chemicals	ZAU_AIIC	listed (product or constituents are listed)
Canadian Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Switzerland. Consolidated Inventory (based on EU-EINECS and EU-NLP)	CH INV	listed (product or constituents are 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)	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)
Taiwan Chemical Substance Inventory (TCSI)	ZTW_INV	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.

### 15.2 Chemical safety assessment

#### tetradecanol

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.

H319 Causes serious eye irritation.

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H410

Very toxic 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

### 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

## 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.



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**tetradecanol**

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000101\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000101_EN_01.pdf)

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