

**NACOL 12 - 98**

Version: 1.06

Revision Date 22.06.2017

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

Trade name	<b>NACOL 12 - 98</b>
INCI	Lauryl Alcohol
REACH No.	01-2119485976-15-0000
Substance name (REACH / CLP)	dodecan-1-ol

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

Uses advised against

**1.3 Details of the supplier of the safety data sheet**

Company	SASOL Germany GmbH Anckelmannsplatz 1 20537 Hamburg
	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) 5 51 - 1 92 40 (GIZ-Nord Poisons Centre)

**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.
Acute aquatic toxicity Category 1	Very toxic to aquatic life.
Chronic aquatic toxicity Category 2	Toxic to aquatic life with long lasting effects.

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

Hazard pictograms



Signal word

Warning

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### Hazard statements

H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

### Precautionary statements

P264	Wash face, hands and any exposed skin thoroughly after handling.
P280	Wear eye protection/ face protection.
P273	Avoid release to the environment.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
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

#### Dodecan-1-ol

<b>EC-No.:</b> 203-982-0	<b>Index-No.:</b>	<b>component type:</b> Active ingredient
<b>REACH No.:</b> 01-2119485976-15-0000		<b>CAS-No.:</b> 112-53-8
<b>Substance name (REACH / CLP):</b> dodecan-1-ol		
<b>Classification (Regulation (EC) No 1272/2008):</b>	Eye Irrit. 2	H319
	Aquatic Acute	1 H400
	Aquatic Chronic	2 H411

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

<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
<b>If inhaled</b>	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
<b>In case of skin contact</b>	Wash off with plenty of water.
<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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<b>If swallowed</b>	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
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**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**

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**5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray, Dry powder, Foam, Carbon dioxide (CO <sub>2</sub> )
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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.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

<b>Personal precautions</b>	Use personal protective equipment.
<b>Special precautions</b>	In the event of transport accidents, request support from the nearest TUIS centre.

**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>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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**6.4 Reference to other sections**

For personal protection see section 8.

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**SECTION 7: HANDLING AND STORAGE**

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### 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.

### 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>Storage class (TRGS 510)</b>	10-13: German Storage Class 10 to 13
<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
EPAL 12 (LAURYL ALCOHOL)	ST ESL	15	12 2010	TX ESL
	Screening levels that have the odor designations represent the levels of constituents in the air at which the odor would be a nuisance.			
EPAL 12 (LAURYL ALCOHOL)	AN ESL	100	12 2010	TX ESL
	Screening levels that have the odor designations represent the levels of constituents in the air at which the odor would be a nuisance.			

##### EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

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

Substance name: dodecan-1-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects	125 mg/kg	based on body weight and day
	Inhalation, Acute/short-term exposure - systemic effects	220 mg/m <sup>3</sup>	
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable

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	dermal, long-term exposure - systemic effects	125 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	220 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	75 mg/kg	based on body weight and day
	Inhalation, Acute/short-term exposure - systemic effects	65 mg/m3	
	Oral, Acute/short-term exposure - systemic effects	75 mg/kg	based on body weight and day
	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	75 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	65 mg/m3	
	Oral, long-term exposure - systemic effects	75 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

### PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: dodecan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0,0028 mg/l	
Marine water	0,00028 mg/l	
intermittent release		Not relevant / not applicable
treatment plant	0,021 mg/l	
Fresh water sediment	1,1 mg/kg	based on dry weight
Marine sediment	0,11 mg/kg	based on dry weight
Soil	0,888 mg/kg	based on dry weight
food		Not relevant / not applicable

### 8.2 Exposure controls

#### ENGINEERING MEASURES

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

#### PERSONAL PROTECTIVE EQUIPMENT

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<b>Respiratory protection</b>	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.
<b>Hand protection</b>	<p>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).</p> <p><b>gloves suitable for permanent contact:</b> Material: Nitrile rubber/nitrile latex Break through time: &gt;= 480 min Layer thickness: 0,35 mm</p> <p>Material: butyl-rubber Break through time: &gt;= 480 min Layer thickness: 0,5 mm</p> <p><b>unsuitable gloves</b> Material: Natural rubber/natural latex</p>
<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Protective suit
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.
<b>Protective measures</b>	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

**ENVIRONMENTAL EXPOSURE CONTROLS**

<b>General advice</b>	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**

<b>Physical state</b>	solid; 20 °C; 1.013 hPa
<b>Form</b>	Molten form
<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. 22 - 25 °C; DIN 53175

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<b>Boiling point/boiling range</b>	ca. 255 - 265 °C
<b>Flash point</b>	ca. 115 °C; DIN 51758
<b>Evaporation rate</b>	Not relevant / not applicable Justification: Solid
<b>Flammability (solid, gas)</b>	not auto-flammable
<b>Lower explosion limit</b>	Not applicable Justification: Solid
<b>Upper explosion limit</b>	Not applicable Justification: Solid
<b>Vapour pressure</b>	< 1,000 hPa; 20 °C
<b>Relative vapour density</b>	Not applicable, Justification: Solid
<b>Density</b>	ca.0,82 g/cm <sup>3</sup> ; 40 °C; DIN 51757
<b>Relative density</b>	No data available
<b>Water solubility</b>	insoluble
<b>Partition coefficient: n-octanol/water</b>	log Pow: ca. 5,4; 23 °C; pH: 7,1; OECD Test Guideline 117
<b>Ignition temperature</b>	ca. 275 °C; ASTM E 659
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	ca. 9,5 mPas; 40 °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.

## 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.

### 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 and applied as directed.

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**products****Thermal decomposition** Stable under normal conditions.**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity** LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401  
(literature value)  
Based on available data, the classification criteria are not met.**Acute inhalation toxicity** LC50 Rat: > 71 mg/l; 1 h  
Target Organs: Lungs  
Symptoms: Salivation, Drowsiness, Loss of balance, Shortness of breath  
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).  
Test substance: Decan-1-ol  
Based on available data, the classification criteria are not met.**Acute dermal toxicity** LD50 Rabbit: > 2.000 mg/kg;  
Category approach  
(literature value)  
Based on available data, the classification criteria are not met.**Skin corrosion/irritation****Skin irritation** human: not irritating; OECD Test Guideline 404  
(literature value)  
Based on available data, the classification criteria are not met.**Serious eye damage/eye irritation****Eye irritation** Rabbit: irritating; OECD Test Guideline 405  
Causes serious eye irritation.**Respiratory or skin sensitisation****Sensitisation** 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** In vitro tests did not show mutagenic effects  
(literature value)  
Category approach**Genotoxicity in vivo** In vivo tests did not show mutagenic effects  
(literature value)**Remarks** Based on available data, the classification criteria are not met.**Carcinogenicity****Carcinogenicity** 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** Rat; Oral; 55-day  
NOAEL ((parents)): 2.000 mg/kg (based on body weight and day)  
NOAEL (F1): 2.000 mg/kg (based on body weight and day)



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	(literature value)
<b>RemarksReproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	Rat; Oral NOAEL: 2.000 mg/kg (based on body weight and day); OECD Test Guideline 422 (literature value)
<b>Remarks-Teratogenicity</b>	Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	
<b>Remarks</b>	The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	Rat; Oral; Subchronic toxicity NOAEL: 2.000 mg/kg (based on body weight and day); OECD Test Guideline 422 (literature value)
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	Not applicable
<b>Further information</b>	
<b>Human experience</b>	Mild skin irritation (literature value)
<b>Toxicological information</b>	Toxicokinetics The substance is poorly absorbed via skin. The substance is metabolised and excreted.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

<b>Toxicity to fish</b>	LC50 (96 h) Pimephales promelas (fathead minnow): > 1 - 10 mg/l ; flow-through test; US EPA 1975 (literature value)
<b>Toxicity to fish - Chronic toxicity</b>	study scientifically unjustified
<b>Toxicity to daphnia and other aquatic invertebrates</b>	EC50 (48 h) Daphnia magna (Water flea): > 0,1 - 1 mg/l ; static test; OECD Test Guideline 202
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	NOEC (21 d) Daphnia magna (Water flea): > 0,01 - 0,1 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211
<b>Toxicity to aquatic plants</b>	ErC50 (72 h) Desmodesmus subspicatus (Scenedesmus subspicatus): > 0,1 - 1 mg/l ; static test; OECD Test Guideline 201  NOEC (72 h) Desmodesmus subspicatus (Scenedesmus subspicatus): 0,085 mg/l ; cell number; static test; OECD Test Guideline 201
<b>Toxicity to bacteria</b>	No data available
<b>Toxicity to soil dwelling organisms</b>	No data available

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### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

**Bioaccumulation** Bioaccumulation is unlikely.

### 12.4 Mobility in soil

**Mobility** Adsorption/Soil; Koc: 17980; log Koc: 4,25; calculated 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** Based on available data, the classification criteria are not met.  
The substance is considered to be toxic to aquatic life, but is not persistent or bioaccumulating and therefore not classified as PBT.

### 12.6 Other adverse effects

**General advice** Very toxic to aquatic life.  
Toxic 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** The waste code must be determined in agreement with the regional waste disposal authority or company. 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.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADR	3077
RID	3077
ADN	3077
IMDG	3077
ICAO/IATA	3077

### 14.2 Proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (1-Dodecanol)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (1-Dodecanol)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (1-Dodecanol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (1-

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ICAO/IATA Dodecanol)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MOLTEN (1-Dodecanol)

### 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	9MI

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

Remarks	No information available.
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## SECTION 15: REGULATORY INFORMATION

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

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.
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#### NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on
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### involving dangerous substances

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

Switzerland. Consolidated Inventory	CH INV	listed (product or constituents are listed)
US. Toxic Substances Control Act	TSCA	listed (product or constituents are listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	listed (product or constituents are listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	listed (product or constituents are listed)
Japan. Kashin-Hou Law List	ENCS (JP)	listed (product or constituents are listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	listed (product or constituents are listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	listed (product or constituents are listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	listed (product or constituents are listed)
China. Inventory of Existing Chemical Substances	INV (CN)	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

#### dodecan-1-ol

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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

### Safety datasheet sections which have been updated:

- 11. Toxicological information
- 12. Ecological information
- 14. Transport information

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### 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
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.

#### dodecan-1-ol

[http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000100\\_EN\\_01.pdf](http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000000100_EN_01.pdf)



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