

**LIALET 111-10**

Version: 4.01

Revision Date 12.06.2019

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

**Trade name** LIALET 111-10

**Substance name (REACH / CLP)** Undecanol, branched and linear, ethoxylated ( $\geq 2.5$  EO)(CAS 127036-24-2)

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

**Use** raw material for washing and cleaning agents  
Industrial use

**Uses advised against**

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

**Company** Sloveca, Sasol Slovakia, spol. s r.o.  
Mostová 2  
811 02 Bratislava  
Slovak Republic

Telephone: +421 2 54430219  
Telefax: +421 2 54430315

**Information (Product safety):** Telephone: +421 46 546 1204  
Telefax: +421 46 546 1144

**E-mail address** msds-info.italy@it.sasol.com

**1.4 Emergency telephone number**

**Emergency telephone number** +421 902 899981; +421 25 477 4166 National Toxicological Information Centre (24 hours)

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity Category 4 (Oral) Harmful if swallowed.  
Serious eye damage Category 1 Causes serious eye damage.

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

**Signal word** Danger

**Hazard statements**  
H302 Harmful if swallowed.

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H318 Causes serious eye damage.

### Precautionary statements

P264 Wash face, hands and any exposed skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P330 Rinse mouth.

### 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

#### Undecanol, branched and linear, ethoxylated (>= 2.5 EO)

content: &gt;= 90 - &lt;= 100 %

component type: Active ingredient

EC-No.: 603-182-5

Index-No.:

CAS-No.: 127036-24-2

REACH No.: Not relevant (polymer)

Substance name (REACH / CLP): Undecanol, branched and linear, ethoxylated (&gt;= 2.5 EO)(CAS: 127036-24-2)

Classification (Regulation (EC) No 1272/2008):	Acute Tox. 4 (Oral)	H302
	Eye Dam. 1	H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Other data** Description synonyme: Undecan-1-ol, ethoxylated; CAS-No.: 34398-01-1

## 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).
<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 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.
<b>If swallowed</b>	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

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

**Most important symptoms and effects, both acute and delayed**      Symptoms: No information available.  
Risks: No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Indication of any immediate medical attention and special treatment needed**      Treatment: No information available.

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**SECTION 5: FIREFIGHTING MEASURES**

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**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.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**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**      Use mechanical handling equipment. The material taken up must be disposed of in accordance with regulations.

**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**

**Advice on safe handling**      Wear personal protective equipment.  
Avoid contact with skin and eyes.

**Advice on protection against**      Provide sufficient air exchange and/or exhaust in work rooms.

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<b>fire and explosion</b>	Keep away from heat and sources of ignition.
<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>	Keep tightly closed in a dry and cool place.
<b>Storage class (TRGS 510)</b>	11: Combustible Solids
<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**

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**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: Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS: 127036-24-2)**

No data available

**PREDICTED NO EFFECT CONCENTRATION (PNEC)****Substance name: Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS: 127036-24-2)**

No data available

**8.2 Exposure controls****ENGINEERING MEASURES**

If possible, use material transfer/filling, metering and blending plants that are closed.

**PERSONAL PROTECTIVE EQUIPMENT**

<b>Respiratory protection</b>	In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where dust, fibres and smoke occur, use self-contained breathing apparatus or breathing apparatus with a type P2 or P3 filter, in compliance with EN 143. No personal respiratory protective equipment normally
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<b>Hand protection</b>	<p>required.</p> <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: butyl-rubber  Break through time: <math>\geq</math> 480 min  Layer thickness: <math>\geq</math> 0,7 mm</p> <p><b>gloves suitable for splash protection:</b>  Material: Nitrile rubber/nitrile latex  Break through time: <math>\geq</math> 30 min  Layer thickness: <math>\geq</math> 0,4 mm</p>
<b>Eye protection</b>	Tightly fitting safety goggles, Safety glasses with side-shields
<b>Skin and body protection</b>	Protective suit
<b>Hygiene measures</b>	Avoid contact with eyes. General industrial hygiene practice. 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.
<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.
<b>Water</b>	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; 25 °C; 1.013 hPa
<b>Form</b>	pasty
<b>Colour</b>	white
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No valid method available
<b>pH</b>	5 - 7; 5 % active substance; 25 °C; STN EN 1262
<b>Pour point</b>	15 - 20 °C; 1.013 hPa; STN 65 6072
<b>Boiling Point</b>	No data available
<b>Flash point</b>	> 125 °C; 1.013 hPa; ASTM D 93
<b>Evaporation rate</b>	No data available

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<b>Flammability (solid, gas)</b>	No data available
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Relative vapour density</b>	No data available
<b>Density</b>	ca.0,996 g/cm <sup>3</sup> ; 50 °C; 1,013 hPa; STN EN ISO 12185
<b>Relative density</b>	No data available
<b>Bulk density</b>	No data available
<b>Water solubility</b>	25 °C; 1.013 hPa; estimated; soluble
<b>Partition coefficient: n-octanol/water</b>	Not applicable Justification: surface-active substance
<b>Ignition temperature</b>	No data available
<b>Auto-ignition temperature</b>	not auto-flammable
<b>Viscosity, dynamic</b>	ca. 26,0 mPas; 50 °C; STN EN ISO 3104
<b>Viscosity, kinematic</b>	ca. 26,2 mm <sup>2</sup> /s; 50 °C; (calculated)
<b>Explosive properties</b>	not expected based on structure and functional groups
<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** 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 normally.

**Thermal decomposition** Hazardous decomposition products formed under fire conditions.

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## SECTION 11: TOXICOLOGICAL INFORMATION

Undecanol, branched and linear, ethoxylated ( $\geq 2.5$  EO):

The data in this chapter are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Test substance: Alcohols, C9-11, branched, ethoxylated

## 11.1 Information on toxicological effects

**Acute toxicity**

<b>Acute oral toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): LD50 Rat: > 300 - 2.000 mg/kg Category approach own test results/literature values Harmful if swallowed.
<b>Acute inhalation toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): No data available
<b>Acute dermal toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): LD50 Rabbit: > 2.000 mg/kg; Category approach (literature value) Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

<b>Skin irritation</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Rabbit: not irritating own test results/literature values Category approach Based on available data, the classification criteria are not met.
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**Serious eye damage/eye irritation**

<b>Eye irritation</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Rabbit: Irreversible effects on the eye own test results/literature values Category approach Causes serious eye damage.
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**Respiratory or skin sensitisation**

<b>Sensitisation</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Maximisation Test Guinea pig: not sensitizing Category approach (literature value) Based on available data, the classification criteria are not met.
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**Germ cell mutagenicity**

<b>Genotoxicity in vitro</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): In vitro tests did not show mutagenic effects Category approach own test results/literature values
<b>Genotoxicity in vivo</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): In vivo tests did not show mutagenic effects Category approach (literature value)
<b>Remarks</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Based on available data, the classification criteria are not met.

**Carcinogenicity**

<b>Carcinogenicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO):
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	The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential. Category approach (literature value)
<b>Remarks</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	
<b>Reproductive toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Animal testing did not show any effects on fertility. Category approach (literature value)
<b>RemarksReproductive toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Based on available data, the classification criteria are not met.
<b>Teratogenicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Did not show teratogenic effects in animal experiments. Category approach (literature value)
<b>Remarks-Teratogenicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Based on available data, the classification criteria are not met.
<b>STOT - single exposure</b>	
<b>Remarks</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
<b>STOT - repeated exposure</b>	
<b>Remarks</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
<b>Repeated dose toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Rat; Oral; 2 years NOAEL: 50 mg/kg (based on body weight and day) Target Organs: Heart, Liver, Kidney Symptoms: reduced body weight gain, increased relative organ weights Category approach (literature value)
<b>Aspiration hazard</b>	
<b>Aspiration toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Not applicable
<b>Toxicological information</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Toxicokinetics Category approach The substance is expected to be rapidly absorbed and excreted. (literature value)

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**SECTION 12: ECOLOGICAL INFORMATION**


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Undecanol, branched and linear, ethoxylated ( $\geq 2.5$  EO):

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Test substance: Alcohols, C9-11, branched, ethoxylated

## 12.1 Toxicity

<b>Toxicity to fish</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): LC50 (96 h) Cyprinus carpio (Carp): $> 10 - 100$ mg/l; flow-through test; OECD Test Guideline 203 own test results/literature values Category approach
<b>Toxicity to fish - Chronic toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): NOEC Fish: $> 1 - 10$ mg/l own test results/literature values Category approach
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): EC50 (48 h) Daphnia magna (Water flea): $> 10 - 100$ mg/l; static test; OECD Test Guideline 202 own test results/literature values Category approach
<b>Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): NOEC (21 d) Daphnia (water flea): $> 1 - 10$ mg/l; own test results/literature values Category approach
<b>Toxicity to aquatic plants</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): EC10 (72 h) algae: $> 1 - 10$ mg/l ; OECD Test Guideline 201; own test results/literature values Category approach
<b>Toxicity to bacteria</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): EC50 activated sludge: 140 mg/l; Respiration inhibition Category approach (literature value)
<b>Toxicity to soil dwelling organisms</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): NOEC Eisenia foetida: 220 mg/kg; reproduction rate; artificial soil Category approach (literature value)
<b>Toxicity to terrestrial flora</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): emergence, growth; NOEC: 10 mg/kg; Lepidium sativum (cress); OECD Test Guideline 208 own test results/literature values Category approach
<b>Toxicity for other terrestrial non-mammalian fauna</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): No data available

## 12.2 Persistence and degradability

<b>Biodegradability</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Readily biodegradable.; $> 60$ %; 28 d; aerobic; OECD Test Guideline 301B own test results/literature values Category approach
	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Biodegradable; $> 60$ %; anaerobic; OECD 311 or equivalent test method Category approach

## 12.3 Bioaccumulative potential

<b>Bioaccumulation</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Bioaccumulation is unlikely. (literature value)
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## 12.4 Mobility in soil

<b>Mobility</b>	Undecanol, branched and linear, ethoxylated ( $\geq 2.5$ EO): Adsorption/Soil; Koc: 4246 - 11246; QSAR (literature value) immobile
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strong adsorption to soil

### 12.5 Results of PBT and vPvB assessment

**Results of PBT assessment** Undecanol, branched and linear, ethoxylated ( $\geq 2.5$  EO):  
Based on available data, the classification criteria are not met.

### 12.6 Other adverse effects

**General advice** Undecanol, branched and linear, ethoxylated ( $\geq 2.5$  EO):  
None known.

## 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** 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

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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

**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:: Not applicable

**Other regulations** This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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**NOTIFICATION STATUS**

Switzerland. Consolidated Inventory	CH INV	not listed (product or constituents are not 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 (IECSC)	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****Undecanol, branched and linear, ethoxylated (>= 2.5 EO)(CAS: 127036-24-2)**

A Chemical Safety Assessment is not required for this substance (exempted from obligation to register).

**SECTION 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

H302	Harmful if swallowed.
H318	Causes serious eye damage.

**Safety datasheet sections which have been updated:**

- 15. Regulatory information
- 16. Other 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.

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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