

SLOVAPOL N 182

Version: 10.02

Revision Date 09.01.2017

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

Trade name	SLOVAPOL N 182
REACH No.	01-2120139360-66-0000
Substance name (REACH / CLP)	(Z)-9-Octadecen-1-ol ethoxylated (< 2.5 moles EO)

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

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

Skin irritation Category 2	Causes skin irritation.
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

Hazard statements

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H315 Causes skin irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves.
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.
 P391 Collect spillage.
 P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Danger of slipping after spill or leakage.
 Forms slippery/greasy layers with water.

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

(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO)

content: >= 90 - <= 100 %

component type: Active ingredient

EC-No.: 500-016-2

Index-No.:

CAS-No.: 9004-98-2

REACH No.: 01-2120139360-66-0000

Substance name (REACH / CLP): (Z)-9-Octadecen-1-ol ethoxylated (< 2.5 moles EO)

Classification (Regulation (EC) No 1272/2008):	Skin Irrit. 2	H315	
	Aquatic Chronic	2	H411

For information on ingredients listed on the candidate list (Candidate List of Substances of Very High Concern for Authorisation) or in the list of substances subject to authorization (Annex XIV of Regulation (EC) No 1907/2006), see section 15.1. of this data sheet.

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).
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.

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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	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

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.
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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

5.1 Extinguishing media

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

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for 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.
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6.2 Environmental precautions

Environmental precautions	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

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

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

Requirements for storage areas and containers	Keep tightly closed in a dry and cool place.
Storage class (TRGS 510)	10: Combustible liquids
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: (Z)-9-Octadecen-1-ol ethoxylated (< 2.5 moles EO)			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	2080 mg/kg bw/day	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - systemic effects	294 mg/m3	

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	Inhalation, long-term exposure - local effects		Not relevant / not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	dermal, long-term exposure - systemic effects	1250 mg/kg bw/day	
	dermal, long-term exposure - local effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / not applicable
	Inhalation, long-term exposure - systemic effects	87 mg/m ³	
	Inhalation, long-term exposure - local effects		Not relevant / not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	Oral, long-term exposure - systemic effects	25 mg/kg bw/day	

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: (Z)-9-Octadecen-1-ol ethoxylated (< 2.5 moles EO)		
Environmental Compartment	Value	Note
Fresh water	0,0019 mg/l	
intermittent release	0,1 mg/l	
Marine water	0,0019 mg/l	
Fresh water sediment	86,9 mg/kg	based on dry weight
Marine sediment	86,9 mg/kg	based on dry weight
treatment plant	10 mg/l	
Air		Not relevant / not applicable
food		Not relevant / not applicable

8.2 Exposure controls

ENGINEERING MEASURES

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

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

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 required.

Hand protection

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

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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: \geq 480 min
Layer thickness: \geq 0,7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex
Break through time: \geq 30 min
Layer thickness: \geq 0,4 mm

Eye protection	Tightly fitting safety goggles, Safety glasses with side-shields
Skin and body protection	Protective suit
Hygiene measures	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 feedings. When using, do not eat, drink or smoke.
Protective measures	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid; 20 °C; 1.013 hPa
Form	liquid
Colour	light yellow
Odour	mild
Odour Threshold	No valid method available
pH	5,65; 10 g/l; 20 °C; STN EN 1262
pour point	-4 °C; 1.013 hPa; ASTM D97
Boiling point/boiling range	255 °C; 1.013 hPa
Flash point	> 240 °C; 1.013 hPa; ASTM D 93
Evaporation rate	No data available
Flammability (solid, gas)	No data available

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Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 1 Pa; 20 °C; EU Method A.4
Relative vapour density	> 1
Density	0,9012 g/cm ³ ; 20 °C; 1.013 hPa; ASTM D7042-04
Relative density	0,9012; 20 °C; ASTM D 7042-04
Bulk density	No data available
Solubility in other solvents	Medium: Alcohol; 20 °C; soluble Medium: Acetone; 20 °C; soluble Medium: Hydrocarbons; 20 °C; partly soluble
Water solubility	0,2732 g/l; 25 °C
Partition coefficient: n-octanol/water	log Pow: 7,15; 20 °C; OECD Test Guideline 117
Ignition temperature	245 °C; 1.013 hPa; Regulation (EC) No 440/2008; Method A.15.
Auto-ignition temperature	not auto-flammable
Viscosity, kinematic	45,6 mm ² /s; 20 °C; ASTM D 7042 20,3 mm ² /s; 40 °C; ASTM D 7042
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	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

11.1 Information on toxicological effects**Acute toxicity**

Acute oral toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 401 (literature value) Category approach Based on available data, the classification criteria are not met.
Acute inhalation toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): LC50 Rat: > 1,6 mg/l; 4 h; OECD Test Guideline 403 (literature value) Category approach Based on available data, the classification criteria are not met.
Acute dermal toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): LD50 Rabbit: > 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	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Rabbit: irritating; OECD Test Guideline 404 The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). (literature value) Test substance: Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO Causes skin irritation.
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Serious eye damage/eye irritation

Eye irritation	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Rabbit: not irritating; OECD Test Guideline 405 (literature value) Category approach Based on available data, the classification criteria are not met.
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Respiratory or skin sensitisation

Sensitisation	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO Based on available data, the classification criteria are not met.
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Germ cell mutagenicity

Genotoxicity in vitro	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): In vitro tests did not show mutagenic effects (literature value) Category approach
Genotoxicity in vivo	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): No data available

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Remarks	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Based on available data, the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.
Reproductive toxicity	
Reproductive toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Two-generation reproductive toxicity: Rat; dermal NOAEL ((parents)): 250 mg/kg (based on body weight and day) NOAEL (F1): 250 mg/kg (based on body weight and day) NOAEL (F2): 250 mg/kg (based on body weight and day) (literature value) Category approach
RemarksReproductive toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Based on available data, the classification criteria are not met.
Teratogenicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Rat; Dermal NOAEL: 250 mg/kg (based on body weight and day) NOAEL (pregnant female): 100 mg/kg (based on body weight and day) (literature value) Category approach
Remarks-Teratogenicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Based on available data, the classification criteria are not met.
STOT - single exposure	
Remarks	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	
Remarks	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Repeated dose toxicity	(Z)-9-Octadecen-1-ol, 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	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Not applicable
Toxicological information	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Toxicokinetics The substance is poorly absorbed via skin. The substance is metabolised and excreted. Bioaccumulation is unlikely. (literature value) Category approach

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): LC50 (96 h) Brachydanio rerio (zebrafish): > 100 mg/l ; semi-static test; OECD Test Guideline 203 (literature value) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). Test substance: Alcohols, C16-18(even numbered) and C18 unsaturated, ethoxylated < 2.5 EO
Toxicity to fish - Chronic toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): EC20 (30 d) Pimephales promelas (fathead minnow): 0,249 mg/l; reproduction rate; model ecosystem (literature value) Category approach
Toxicity to daphnia and other aquatic invertebrates	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): EC50 (48 h) Daphnia magna (Water flea): > 10 - 100 mg/l ; static test; OECD Test Guideline 202 (literature value) Category approach
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): EC20 (21 d) Daphnia magna (Water flea): 0,048 mg/l; reproduction rate; QSAR; (literature value)
Toxicity to aquatic plants	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): ErC50 (72 h) Pseudokirchneriella subcapitata (green algae): > 10 mg/l ; static test; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy). (literature value) (Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): EC20 (72 h) Desmodesmus subspicatus (Scenedesmus subspicatus): 0,145 mg/l ; Biomass; static test; QSAR; (literature value)
Toxicity to bacteria	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): EC20 (3 h) activated sludge, domestic: > 1.000 mg/l; static test; OECD Test Guideline 209 (literature value)
Toxicity to soil dwelling organisms	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): LC50 (14 d) Eisenia fetida (earthworms): > 1.000 mg/kg; mortality; artificial soil (literature value) Category approach
Toxicity to terrestrial flora	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): emergence, growth; NOEC (19 d): 100 mg/l; Triticum aestivum (wheat), Lepidium sativum (cress), Brassica alba (mustard); OECD Test Guideline 208 Category approach
Toxicity for other terrestrial non-mammalian fauna	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): The study is not necessary. Justification: Studies on birds do not need to be conducted due to large mammalian dataset. Direct exposure to soil is unlikely. Readily biodegradable.

12.2 Persistence and degradability

Biodegradability	(Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO): Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B (literature value)
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12.3 Bioaccumulative potential

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Bioaccumulation (Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO):
Pimephales promelas (fathead minnow); 72 h; Bioconcentration factor (BCF):
387,5
Bioaccumulation is unlikely.
(literature value)
Category approach

12.4 Mobility in soil

Mobility (Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO):
Adsorption/Soil/Sewage sludge; log Koc: 3,92 - 4,66; QSAR
(literature value)
immobile
strong adsorption to soil

12.5 Results of PBT and vPvB assessment

Results of PBT assessment (Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO):
Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice (Z)-9-Octadecen-1-ol, ethoxylated (< 2.5 EO):
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	3082
RID	3082
ADN	3082
IMDG	3082
ICAO/IATA	3082

14.2 Proper shipping name

ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcoholethoxylat)
RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcoholethoxylat)
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcoholethoxylat)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty alcoholethoxylat)
ICAO/IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty

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alcoholethoxylat)

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	(E)
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.

SECTION 15: REGULATORY INFORMATION

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

EU REGULATIONS /INTERNATIONAL REGULATIONS

EUREACHIV: Regulation (EC) No 1907/2006 ; ANNEX XIV: LIST OF SUBSTANCES SUBJECT TO AUTHORISATION

Not listed

EU 689/2008: Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals

Not listed

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EU RA17: Regulation (EC) No 1907/2006; ANNEX XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

Not listed

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; E2

Qualifying quantity 1: 200 t; Qualifying quantity 2: 500 t;

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.

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)
Mexico. National Inventory of Chemical Substances (INSQ). Base 2009. Secretariat of Environment and Natural Resources - National Institute of Ecology	INSQ	listed (product or constituents are listed)
New Zealand. Inventory of Chemicals (NZIOC), as published by ERMA New Zealand	NZIOC	listed (product or constituents are listed)
Taiwan. Existing Chemicals Inventory (MOL No. 10302023691)	TCSI	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**(Z)-9-Octadecen-1-ol ethoxylated (< 2.5 moles EO)**

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.**

H315	Causes skin irritation.
H411	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
3. Composition/information on ingredients
8. Exposure controls/personal protection
9. Physical and chemical properties
11. Toxicological information
12. Ecological information
14. Transport information
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

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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.

(Z)-9-Octadecen-1-ol ethoxylated (< 2.5 moles EO)

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/0000000022212_EN_01.pdf
