MARLAZIN OL 2

Version: 9.00 **Revision Date 20.01.2017**

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	**Marlazin OL 2**
INCI	PEG-2 Oleamine
Substance name (REACH / CLP)	(Z)-Octadec-9-enylamine, ethoxylated

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

Use	Industrial use raw material for textile auxiliary agents surface-active substance
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) 23 65 - 49 22 32

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.
Skin corrosion Category 1B	Causes severe skin burns and eye damage.
Acute aquatic toxicity Category 1	Very toxic to aquatic life.
Chronic aquatic toxicity Category 1	Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word	Danger

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

oleylamine, ethoxylated

component type: Active ingredient

EC-No.: 500-048-7 **Index-No.:** **CAS-No.:** 26635-93-8
REACH No.: not available (quantity threshold for registration not reached)
Substance name (REACH / CLP): (Z)-Octadec-9-enylamine, ethoxylated

Classification (Regulation (EC) No 1272/2008):	Acute Tox. 4 (Oral)	H302	
	Skin Corr. 1B	H314	
	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	Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	Move to fresh air. Call a physician immediately.
In case of skin contact	Wash off immediately with plenty of water. Consult a physician.

In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.
If swallowed	Do NOT induce vomiting. Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

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: Risk of product entering the lungs on vomiting after ingestion.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed	Treatment: Call a physician immediately.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Further information	Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions	Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	Wear personal protective equipment.

Advice on protection against fire and explosion	Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep container tightly closed. Keep in a cool, well-ventilated place.

7.3 Specific end use(s)

Specific use(s)	This information is not available.

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)-Octadec-9-enylamine, ethoxylated

No data available

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: (Z)-Octadec-9-enylamine, ethoxylated

No data available

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection	No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.
Hand protection	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through

time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

gloves suitable for permanent contact:
Material: butyl-rubber
Break through time: >= 480 min
Layer thickness: >= 0,7 mm

gloves suitable for splash protection:
Material: Nitrile rubber/nitrile latex
Break through time: >= 30 min
Layer thickness: >= 0,4 mm

Eye protection	Tightly fitting safety goggles
Skin and body protection	Protective suit, Safety shoes
Hygiene measures	Take off all contaminated clothing immediately. Handle in accordance with good industrial hygiene and safety practice.
Protective measures	Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Should not be released into the environment.

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	yellow
Odour	amine-like
Odour Threshold	No data available
pH	ca. 11; 20 °C; aqueous extract
Melting point/range	ca. 0 °C
Boiling point/boiling range	Not applicable
Flash point	ca. 218 °C; DIN 51376
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	< 0,1 hPa; 20 °C
Relative vapour density	No data available
Density	ca.0,96 g/cm3; 20 °C

Water solubility	practically insoluble
Partition coefficient: n-octanol/water	No data available
Ignition temperature	> 300 °C; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, dynamic	No data available
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 under recommended storage conditions.

10.2 Chemical stability

Note No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

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 strong bases; Strong oxidizing agents; Strong reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products	Stable under normal conditions.
Thermal decomposition	No decomposition if used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	oleylamine, ethoxylated: LD50 Rat: > 300 - 2.000 mg/kg; OECD Test Guideline 401 Target Organs: Lungs, Liver, Gastro-intestinal system (literature value) Harmful if swallowed.
Acute inhalation toxicity	oleylamine, ethoxylated:

No data available

Acute dermal toxicity oleylamine, ethoxylated:
study scientifically unjustified
Justification:
Corrosive

Skin corrosion/irritation

Skin irritation oleylamine, ethoxylated:
Rabbit: Extremely corrosive and destructive to tissue.; OECD Test Guideline 404
Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Respiratory or skin sensitisation

Sensitisation oleylamine, ethoxylated:
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 oleylamine, ethoxylated:
In vitro tests did not show mutagenic effects
(literature value)

Remarks oleylamine, ethoxylated:
Based on available data, the classification criteria are not met.

Carcinogenicity

Carcinogenicity oleylamine, ethoxylated:
This information is not available.

Reproductive toxicity

Teratogenicity oleylamine, ethoxylated:
Rat; Oral
NOAEL: 30 mg/kg (based on body weight and day)
NOAEL (pregnant female): 30 mg/kg (based on body weight and day); OECD Test Guideline 422
(literature value)
The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Test substance: Bis (2-hydroxyethyl) coco alkylamine

STOT - single exposure

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

STOT - repeated exposure

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

Repeated dose toxicity oleylamine, ethoxylated:
Rat; Oral; Subacute toxicity
NOAEL: 30 mg/kg (based on body weight and day)
LOAEL: 100 mg/kg (based on body weight and day); OECD Test Guideline 407
Target Organs: Liver, Gastrointestinal tract
(literature value)

Aspiration hazard

Aspiration toxicity	oleylamine, ethoxylated: Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	oleylamine, ethoxylated: LC50 (96 h) Danio rerio (zebra fish): > 0,01 - 0,1 mg/l ; semi-static test; OECD Test Guideline 203 (literature value)
Toxicity to fish - Chronic toxicity	oleylamine, ethoxylated: No data available
Toxicity to daphnia and other aquatic invertebrates	oleylamine, ethoxylated: EC50 (48 h) Daphnia magna (Water flea): 0,01 - 0,1 mg/l ; static test; OECD Test Guideline 202 (literature value)
Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity	oleylamine, ethoxylated: EC10 (21 d) Daphnia magna (Water flea): 0,0107 mg/l; reproduction rate; semi-static test; OECD Test Guideline 211; (literature value)
Toxicity to aquatic plants	oleylamine, ethoxylated: EC50 (72 h) Pseudokirchneriella subcapitata (green algae): > 0,01 - 0,1 mg/l ; Growth rate; static test; OECD Test Guideline 201; (literature value)
Toxicity to bacteria	oleylamine, ethoxylated: EC50 (3 h) activated sludge of a predominantly domestic sewage: 130 mg/l; Respiration inhibition; OECD Test Guideline 209
Toxicity to soil dwelling organisms	oleylamine, ethoxylated: NOEC (56 d) Eisenia foetida: 500 mg/kg; reproduction rate; OECD Test Guideline 222 (literature value)
Toxicity to terrestrial flora	oleylamine, ethoxylated: The study is not necessary. Justification: Readily biodegradable.
Toxicity for other terrestrial non-mammalian fauna	oleylamine, ethoxylated: The study is not necessary. Justification: Readily biodegradable.

12.2 Persistence and degradability

Biodegradability	oleylamine, ethoxylated: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B

12.3 Bioaccumulative potential

Bioaccumulation	oleylamine, ethoxylated: Bioconcentration factor (BCF): 23,4; QSAR Bioaccumulation is unlikely. (literature value)

12.4 Mobility in soil

Mobility	oleylamine, ethoxylated: adsorption/desorption (soil); Koc: > 5000; OECD Test Guideline 106

immobile
strong adsorption to soil
(literature value)

12.5 Results of PBT and vPvB assessment

Results of PBT assessment	oleylamine, ethoxylated: Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice	oleylamine, ethoxylated: Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

waste code of the European Union: EWC	A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR	3267
RID	3267
ADN	3267
IMDG	3267
ICAO/IATA	3267

14.2 Proper shipping name

ADR	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty aminpolyethylenglycolether)
RID	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty aminpolyethylenglycolether)
ADN	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty aminpolyethylenglycolether)
IMDG	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty aminpolyethylenglycolether)
ICAO/IATA	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty aminpolyethylenglycolether)

14.3 Transport hazard class

ADR	8
RID	8
ADN	8
IMDG	8
ICAO/IATA	8

14.4 Packing group

ADR	II
RID	II
ADN	II
IMDG	II
ICAO/IATA	II

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	80
	Labels	8
	Tunnel restriction code	(E)
IMDG	Labels 8	
	EmS Number 1 F-A	
	EmS Number 2 S-B	
ICAO/IATA	Labels	8

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

Ship type	2
Pollution category	Y
Remarks	MARPOL NAME: Ethoxylated long chain (C16+) alkyloxyalkylamine

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:: ENVIRONMENTAL HAZARDS; E1

Qualifiying quantity 1: 100 t; Qualifiying 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

(Z)-Octadec-9-enylamine, ethoxylated

A Chemical Safety Assessment is not required for this substance (quantity threshold for registration not reached).

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

8. Exposure controls/personal protection

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