

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 21/11/2023 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form

Trade name Product group : Mixture

- : ORLEN OIL GEAR SX 75W-90
- : Trade product

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture : Professional use,Consumer use : gear oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ORLEN OIL Sp. z o.o. ul. Elbląska 135 80-718 Gdańsk T +48 12 66 555 00 / +48 12 66 555 01 <u>centrala@orlenoil.pl</u> E-mail address of competent person responsible for the SDS : <u>msds@orlenoil.pl</u>

1.4. Emergency telephone number

Emergency number

: Emergency contact + 48 242010367, +48 242869509, +48242869556 (7:00-15:00) Emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, H412 Category 3

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

2.3. Other hazards	
EUH-statements	: EUH208 - Contains Amines, C10-C14-tert-alkyl. May produce an allergic reaction.
	national law.
	P501 - Dispose of contents/container to properly labelled waste containers according to the
Precautionary statements (CLP)	: P273 - Avoid release to the environment.
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Signal word (CLP)	: -

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based; Baseoil— unspecified; (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889- 13	60	Asp. Tox. 1, H304
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil— unspecified (Note L)	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X	5.25 – 8.75	Asp. Tox. 1, H304
Amines, C10-C14-tert-alkyl	EC-No.: 701-175-2 REACH-no: 01-2119456798- 18	0.04 – 0.12	Acute Tox. 4 (Oral), H302 (ATE=612 mg/kg) Acute Tox. 3 (Dermal), H311 (ATE=251 mg/kg) Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	0.04 - 0.084	Acute Tox. 4 (Oral), H302 (ATE=1689 mg/kg) Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	(10 ≤ C < 100) STOT RE 2, H373

Note L: The harmonised classification as a carcinogen applies unless it can be show n that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in w hich case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation
First-aid measures after skin contact

: Remove person to fresh air and keep comfortable for breathing.

: Wash skin w ith plenty of w ater.

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First-aid measures after eye contact	:	Rinse eyes with water as a precaution.
First-aid measures after ingestion	:	Call a poison center or a doctor if you feel unw ell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical, CO2, or waters

Suitable extinguishing media Unsuitable extinguishing media	Dry chemical, CO2, or water spray or regular foam.Strong water jet.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self -contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protec	tive equipment and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for con	ntainment and cleaning up		
Methods for cleaning up Other information	 Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site. 		
	\cdot Dispose of materials of solid residues at all authorized site.		

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the w ork station. Wear personal protective equipment. Do not eat, drink or smoke w hen using this product. Always wash hands after handling the product. 	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions Storage temperature	 Store in a w ell-ventilated place. Keep cool. -20 – 40 °C 	

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Amines, C10-C14-tert-alkyl		
DNEL/DMEL (Workers)		
Long-term - systemic effects, inhalation	12.5 mg/m³	
Long-term - local effects, inhalation	12.1 mg/m³	
DNEL/DM EL (General population)		
Long-term - systemic effects,oral	0.35 mg/kg bodyw eight/day	
Long-term - systemic effects, inhalation	2.5 mg/m³	
Long-term - local effects, inhalation	1.2 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.001 mg/l	
PNEC aqua (marine w ater)	0.0001 mg/l	
PNEC aqua (intermittent, freshwater)	0.004 mg/l	
PNEC (Sediment)	·	
PNEC sediment (freshwater)	2.14 mg/kg dw t	
PNEC sediment (marine water)	0.214 mg/kg dw t	
PNEC (Soil)		
PNEC soil	0.428 mg/kg dw t	
PNEC (Oral)		
PNEC oral (secondary poisoning)	4.71 mg/kg food	
PNEC (STP)		
PNEC sew age treatment plant	0.635 mg/l	
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines		
DNEL/DM EL (Workers)		
Acute - local effects, inhalation	1 mg/m ³	
Long-term - systemic effects, inhalation	0.38 mg/m³	
Long-term - local effects, inhalation	1 mg/m ³	
DNEL/DM EL (General population)		
Long-term - systemic effects,oral	40 μg/kg bodyw eight/day	
L	1	

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(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines		
Long-term - systemic effects, inhalation	0.035 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.26 µg/l	
PNEC aqua (marine w ater)	0.026 μg/l	
PNEC aqua (intermittent, freshwater)	1.6 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.76 mg/kg dw t	
PNEC sediment (marine w ater)	0.376 mg/kg dw t	
PNEC (Soil)		
PNEC soil	10 mg/kg dw t	
PNEC (STP)		
PNEC sew age treatment plant	550 µg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: amber.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: ≈ -45 °C
Boiling point	: Not available
Flammability	: Non flammable.
Low er explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: ≈ 160 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 16 mm²/s 100°C
Solubility	: insoluble in water. Soluble in hydrocarbons.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.86 g/cm³ 15°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological inform	ation		
11.1. Information on hazard classes as	s defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Not classified Not classified Not classified		
Amines, C10-C14-tert-alkyl			
LD50 dermal rat	251 mg/kg bodyw eight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 190 - 322		
(Z)-octadec-9-enylamine, C16-18-(even	n numbered, saturated and unsaturated)-alkylamines		
LD50 dermal rat	> 2000 mg/kg bodyw eight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
Skin corrosion/irritation	: Not classified		
(Z)-octadec-9-enylamine, C16-18-(ever	n numbered, saturated and unsaturated)-alkylamines		
рН	11.7 Temp.: 20 °C		
Serious eye damage/irritation	: Not classified		
(Z)-octadec-9-enylamine, C16-18-(ever	n numbered, saturated and unsaturated)-alkylamines		
рН	11.7 Temp.: 20 °C		
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	 Not classified. Not classified Not classified Not classified Not classified Not classified 		
(Z)-octadec-9-enylamine, C16-18-(even	n numbered, saturated and unsaturated)-alkylamines		
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure	: Not classified		
(Z)-octadec-9-enylamine, C16-18-(even	n numbered, saturated and unsaturated)-alkylamines		
NOAEL (oral, rat, 90 days)	3.25 mg/kg bodyw eight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified. (Kinematic viscosity at 40°C>20.5 mm2/s)		
ORLEN OIL GEAR SX 75W-90			
Viscosity, kinematic	16 mm²/s 100°C		
Lubricating oils (petroleum), C20-50, h	nydrotreated neutral oil-based; Baseoil— unspecified; (72623-87-1)		
Viscosity, kinematic	≈ 16 mm²/s 40°C		
Amines, C10-C14-tert-alkyl			
Viscosity, kinematic	≈ 3.44 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'		
(Z)-octadec-9-enylamine, C16-18-(even	n numbered, saturated and unsaturated)-alkylamines		
Viscosity, kinematic	< 20.5 mm²/s		
Lubricating oils (petroleum), C15-30, h	hydrotreated neutral oil-based; Baseoil— unspecified (72623-86-0)		
Viscosity, kinematic	< 20.5 mm²/s		
11.2. Information on other hazards			
The information of other hazards			

No additional information available

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SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic) Not rapidly degradable	 Harmful to aquatic life w ith long lasting effects. Not classified Harmful to aquatic life w ith long lasting effects. 		
Amines, C10-C14-tert-alkyl			
LC50 - Fish [1]	1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)		
EC50 - Crustacea [1]	0.24 – 6 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	0.44 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)		
NOEC chronic fish	0.078 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '96 d'		
(Z)-octadec-9-enylamine, C16-18-(even num	bered, saturated and unsaturated)-alkylamines		
LC50 - Fish [1]	0.84 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
LC50 - Fish [2]	4.21 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)		
EC50 - Crustacea [1]	0.32 mg/l Test organisms (species): Daphnia magna		
EC50 - Crustacea [2]	0.98 mg/l Test organisms (species): Daphnia magna		
EC50 72h - Algae [1]	0.46 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
EC50 72h - Algae [2]	0.38 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
LOEC (chronic)	0.032 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
NOEC (chronic)	0.013 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
12.2. Persistence and degradability			
(Z)-octadec-9-enylamine, C16-18-(even num	bered, saturated and unsaturated)-alkylamines		
Persistence and degradability	readily biologically degradable.		
Biodegradation	66 % 28 days		
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
No additional information available			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
No additional information available			

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SECTION 13: Disposal considerations 13.1. Waste treatment methods		
HP Code	: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" w aste which can cause specific target organ toxicity either from a single or repeated exposure, or w hich cause acute toxic effects following aspiration.	

SECTION 14: Transport information

n accordance with ADR / IMD	NG / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping	g name	·		·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)			I
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	1			I
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	zards			1
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information	on available			1

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Air transport Not applicable

Inland waterwaytransport Not applicable

Rail transport Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List(SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterw ays	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Low est Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	

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Abbreviations and acronyms:		
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sew age treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:

Full text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard, Category 1	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH208	Contains Amines, C10-C14-tert-alkyl. May produce an allergic reaction.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if sw allowed.	
H304	May be fatal if sw allowed and enters airways.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H335	May cause respiratory irritation.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Skin Corr. 1	Skin corrosion/irritation, Category 1	

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Full text of H- and EUH-statements:		
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aquatic Chronic 3	H412	Calculation method

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current know ledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.