Safety Data Sheet

according to Regulation (EC) No 1907/2006

Jokisch Koria Nefo 12.06

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

1.1. Product identifier

Jokisch Koria Nefo 12.06

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

Use of the substance/mixture

Corrosion inhibitor

1.3. Details of the supplier of the safety data sheet

Company name:	Jokisch GmbH Germany	
Street:	Industriestraße 5	
Place:	D-33813 Oerlinghausen	
Telephone:	+49(0)5202/9734-0	Telefax: +49(0)5202/9734-49
E-mail:	info@jokisch-fluids.de	
Contact person:	Regulatory affairs	
E-mail:	MSDS@jokisch-fluids.de	
Internet:	www.jokisch-fluids.de	

1.4. Emergency telephone number:

Emergency telephone number (24h) +1 872 5888271 (JRR) (en)

Further Information

Reserved for industrial and professional use.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Hazard Statements:

May be fatal if swallowed and enters airways.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:

Hazard statements

H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Petroleumsulfonate, Sulfonic acids, petroleum, calcium salts (TBN < 100), Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts (TBN > 300). May produce an allergic reaction.

Precautionary statements

P331	Do NOT induce vomiting.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64742-48-9	Naphtha (Erdöl), mit Wasserstoff behandelte schwere			50-70 %
	265-150-3		01-2119486659-16	
	Asp. Tox. 1; H304			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			1-3 %
	203-961-6		01-2119475104-44	
	Eye Irrit. 2; H319			
61789-86-4	Sulfonic acids, petroleum, calcium salts			1-3 %
	263-093-9		01-2119488992-18	
	Skin Sens. 1B; H317			
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			0,1-1 %
	274-263-7		01-2119492616-28	
	Skin Sens. 1B; H317			
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			0,1-1 %
	271-529-4		01-2119492627-25	
	Skin Sens. 1B; H317			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
64742-48-9	265-150-3	Naphtha (Erdöl), mit Wasserstoff behandelte schwere	50-70 %
	dermal: LD50 = 2000 mg/kg; oral: LD50 = 5000 mg/kg		
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	1-3 %
	dermal: LD50 = 2764 mg/kg; oral: LD50 = 3305 mg/kg		
61789-86-4	263-093-9	Sulfonic acids, petroleum, calcium salts	1-3 %
	inhalation: LC50 = > 1,9 mg/l (dusts or mists); dermal: LD50 = 4000-5000 mg/kg; oral: LD50 = 16000 mg/kg		
70024-69-0	274-263-7	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	0,1-1 %
	inhalation: LC50 = > 1,9 mg/l (vapours); dermal: LD50 = > 4000 mg/kg; oral: LD50 = > 5000 mg/kg		
68584-23-6	271-529-4	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	0,1-1 %
	inhalation: LC50 = > 1,9 mg/l (dusts or mists); dermal: LD50 = 4000-5000 mg/kg; oral: LD50 = 16000 mg/kg		

Further Information

Verordnung EG Nr. 648/2004: < 5 % 2-(2-Butoxyethoxy)ethanol

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Seek medical attention if problems persist. No administration in cases of unconsiousness or cramps.
First aider: Pay attention to self-protection!

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Remove contaminated, saturated clothing immediately.
After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult an ophthalmologist.

After ingestion

Do NOT induce vomiting.Rinse mouth thoroughly with water.
Caution if victim vomits: Risk of aspiration!

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

May be fatal if swallowed and enters airways.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Extinguishing powder. Carbon dioxide. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated:
Carbon monoxide
Carbon dioxide (CO2).
Sulfur oxides.
Do not breathe gas/fumes/vapour/spray.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.
Provide adequate ventilation.
Avoid contact with skin, eyes and clothes.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Treat the recovered material as prescribed in the section on waste disposal .
Collect in closed containers for disposal.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof electrical equipment.
Use only in well-ventilated areas.
When using do not eat, drink or smoke.

Advice on protection against fire and explosion

Vapours are heavier than air and will spread at floor level.
Brandklasse DIN EN 2: B

Advice on general occupational hygiene

Provide adequate ventilation.

Further information on handling

High slip hazard because of leaking or spilled product. If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.
Recommended storage temperature: 10-40 °C

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.
Maximum period of storage (time): 3

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

7.3. Specific end use(s)

Corrosion inhibitor
Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-48-9	Naphtha (Erdöl), mit Wasserstoff behandelte schwere			
Worker DNEL, long-term		inhalation	systemic	1,9 mg/m³
Worker DNEL, acute		inhalation	systemic	1286,4 mg/m³
Worker DNEL, long-term		inhalation	local	837,5 mg/m³
Worker DNEL, acute		inhalation	local	1066,67 mg/m³
Consumer DNEL, long-term		inhalation	systemic	0,41 mg/m³
Consumer DNEL, acute		inhalation	systemic	1152 mg/m³
Consumer DNEL, long-term		inhalation	local	178,57 mg/m³
Consumer DNEL, acute		inhalation	local	640 mg/m³
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
Worker DNEL, long-term		dermal	systemic	83 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	60,7 mg/m³
Worker DNEL, long-term		inhalation	local	67,5 mg/m³
Consumer DNEL, long-term		inhalation	local	40,5 mg/m³
Consumer DNEL, long-term		inhalation	systemic	40,5 mg/m³
Worker DNEL, long-term		inhalation	systemic	67,5 mg/m³
Worker DNEL, acute		inhalation	local	101,2 mg/m³
Consumer DNEL, long-term		dermal	systemic	50 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day
61789-86-4	Sulfonic acids, petroleum, calcium salts			
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m³
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,03 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m³
Consumer DNEL, long-term		dermal	systemic	1667 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,513 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,8333 mg/kg bw/day
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m³
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,03 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,667 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,513 mg/cm²
Consumer DNEL, long-term		oral	systemic	0,833 mg/kg bw/day
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m³

Worker DNEL, long-term	dermal	systemic	3,33 mg/kg bw/day
Worker DNEL, long-term	dermal	local	1,03 mg/cm²
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m³
Consumer DNEL, long-term	dermal	systemic	1667 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	0,513 mg/cm²
Consumer DNEL, long-term	oral	systemic	0,8333 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
Freshwater	1,1 mg/l
Marine water	0,11 mg/l
Freshwater sediment	4,4 mg/kg
Marine sediment	0,44 mg/kg
Secondary poisoning	56 mg/kg
Micro-organisms in sewage treatment plants (STP)	200 mg/l
Soil	0,4 mg/kg
61789-86-4	Sulfonic acids, petroleum, calcium salts
Freshwater	1 mg/l
Marine water	1 mg/l
Freshwater sediment	226000000 mg/kg
Marine sediment	226000000 mg/kg
Secondary poisoning	16667 mg/kg
Micro-organisms in sewage treatment plants (STP)	1 mg/l
Soil	271000000 mg/kg
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts
Freshwater	1 mg/l
Marine water	1 mg/l
Freshwater sediment	226000000 mg/kg
Marine sediment	226000000 mg/kg
Secondary poisoning	16667 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts
Freshwater	1 mg/l
Marine water	1 mg/l
Freshwater sediment	226x10hoch 6 mg/kg
Marine sediment	226x10hoch 6 mg/kg
Secondary poisoning	16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
Soil	271x10hoch 6 mg/kg

8.2. Exposure controls




Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Hand protection

Protect skin by using skin protective cream.
Wash hands before breaks and after work.

Skin protection

Chemical resistant safety shoes. Take off immediately all contaminated clothing.
Thorough skin-cleansing after handling the product. Set out skin protection guidelines.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Filtertyp: A, B, E, K. Klasse 1: Höchstzulässige Schadstoffkonzentration in der Atemluft = 1000 mL/m³ (0,1 Vol.-%); Klasse 2 = 5000 mL/m³ (0,5 Vol.-%); Klasse 3 = 10000 mL/m³ (1,0 Vol.-%).

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	brown
Odour:	characteristic

		Test method
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	184 °C	
Lower explosion limits:	0,6 vol. %	DIN EN 1839
Upper explosion limits:	6 vol. %	DIN EN 1839
Flash point:	>= 60 °C	DIN EN 2719
pH-Value:	not applicable	
Viscosity / kinematic: (at 40 °C)	3,17 mm²/s	ASTM D 7042
Density (at 15 °C):	0,837 g/cm³	ASTM D 7042

9.2. Other information

Other safety characteristics

Sublimation point:	not determined
Softening point:	not determined

Further Information

Not oxidising.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reactions with: Acids, strong alkalis, Oxidizing agents.

10.4. Conditions to avoid

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Protect against: heat.

10.5. Incompatible materials

The following must be prevented: Oxidizing agents, strong.Etchant and acids

10.6. Hazardous decomposition products

Hazardous decomposition products: CO, CO2

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.
Data apply to the main component.

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-48-9	Naphtha (Erdöl), mit Wasserstoff behandelte schwere				
	oral	LD50 5000 mg/kg	Rat	ECHA	
	dermal	LD50 2000 mg/kg	Rabbit	ECHA	
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether				
	oral	LD50 3305 mg/kg	Rat		
	dermal	LD50 2764 mg/kg	Rabit		
61789-86-4	Sulfonic acids, petroleum, calcium salts				
	oral	LD50 16000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 4000-5000 mg/kg	Rabbit	ECHA	OECD 402
	inhalation (4 h) dust/mist	LC50 > 1,9 mg/l	Rat		EPA OPP 81-3
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 4000 mg/kg	Rabit	ECHA	40 CFR
	inhalation (4 h) vapour	LC50 > 1,9 mg/l	Rat		EPA OPP 81-3
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts				
	oral	LD50 16000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 4000-5000 mg/kg	Rabbit	ECHA	OECD 402
	inhalation (4 h) dust/mist	LC50 > 1,9 mg/l	Rat		EPA OPP 81-3

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.
Repeated exposure may cause skin dryness or cracking.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains Petroleumsulfonate, Sulfonic acids, petroleum, calcium salts (TBN < 100), Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts (TBN > 300). May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

Additional information on tests

No risks worthy of mention. Practical experience.
The statement is derived from the properties of the single components.
The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

The statement is derived form the properties of the components.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether						
	Acute fish toxicity	LC50 mg/l	2500	96 h	Leopomis macrochirus		static methode
	Acute algae toxicity	ErC50 mg/l	> 100	96 h	Scenedesmus subspicatus		static methode
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna		static methode
	Acute bacteria toxicity	EC50 mg/l ( )	> 1000				static methode 0,1d
61789-86-4	Sulfonic acids, petroleum, calcium salts						
	Acute fish toxicity	LC50 mg/l	> 10000	96 h	Cyprinodon variegatus		OECD 203
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata		EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna		EPA OTS 797.1300
	Acute bacteria toxicity	EC50 mg/l ( )	> 10000		Activated sludge		OECD 209
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts						
	Acute fish toxicity	LC50 mg/l	> 10000	96 h	Cyprinodon variegatus	ECHA	OECD 203
	Acute algae toxicity	ErC50 mg/l	> 10000	72 h	Pseudokirchneriella subcapitata		EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia magna		EPA OTS 797.1300
	Algae toxicity	NOEC mg/l	1000	4 d	freshwater algae	ECHA	
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts						
	Acute fish toxicity	LC50 mg/l	> 10000	96 h	Cyprinodon variegatus		OECD 203
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Pseudokirchneriella subcapitata		EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	> 1000	48 h	Daphnia Magna		EPA OTS 797.1300
	Acute bacteria toxicity	EC50 mg/l ( )	> 10000		Activated sludge		OECD 209

12.2. Persistence and degradability

Product is not easily biodegradable.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether			
	OECD 301C / ISO 9408	89 %	28	
	Product is biodegradable.			
	OECD 302B	100 %	28	
	Product is biodegradable.			
	OECD TG 301 E	94 %	28	
	Product is biodegradable.			
61789-86-4	Sulfonic acids, petroleum, calcium salts			
	OECD 301D	8 %	28	
	Poorly biodegradable.			
	OECD 301F	8,6 %	28	
	Poorly biodegradable.			
	OECD 301B	1,5%	28	
	Poorly biodegradable.			
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts			
	OECD 301D	8 %	28	
	Poorly biodegradable.			
	OECD 301F	8,6 %	28	
	Poorly biodegradable.			
	OECD 301B	1,5 %	28	
	Poorly biodegradable.			
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts			
	OECD 301D	8 %	28	
	Poorly biodegradable.			
	OECD 301F	8,6 %	28	
	Poorly biodegradable.			
	OECD 301B	1,5 %	28	
	Poorly biodegradable.			

12.3. Bioaccumulative potential

May accumulate in organisms.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether	0,29
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	> 6,0

12.4. Mobility in soil

in delivery condition: liquid .

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
The components in this formulation do not meet the criteria for classification as PBT or vPvB .

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

List of Wastes Code - used product

140603 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08); waste organic solvents, refrigerants and foam/aerosol propellants; other solvents and solvent mixtures; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	-

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es):	No dangerous good in sense of these transport regulations.
14.4. Packing group:	-

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Personal protection equipment: see section 8

14.7. Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 29, Entry 55

Directive 2010/75/EU on industrial emissions:	574,4 g/L

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	2 - obviously hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

Abbreviations and acronyms

Asp. Tox. 1: Aspiration hazard, hazard category 1
Eye Irrit. 2: Eye irritation, hazard category 2
Skin Sens. 1B: Skin sensitisation, hazard category 1B
Repr. - Reproduktionstoxizität
Asp. Tox. - Aspirationstoxizität
Acute Tox. - Akute Toxizität
Aquatic Acute - Akute aquatische Toxizität
Aquatic Chronic - Chronische aquatische Toxizität
Eye Dam. - Augenschaden/-reizung
Eye Irrit. - Augenreizung
Skin Corr. - Ätzwirkung auf die Haut
Skin Irrit. - Hautreizung
Skin Sens. - Hautallergen
Resp. Sens. - Inhalationsallergen
STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition
STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition
VOC - Flüchtige organische Verbindungen
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
Abkürzungen und Akronyme siehe Verzeichnis unter http://abk.esdscom.eu

Relevant H and EUH statements (number and full text)

H304 May be fatal if swallowed and enters airways.

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Petroleumsulfonate, Sulfonic acids, petroleum, calcium salts (TBN < 100), Benzenesulfonic acid, di-C10-C14-alkyl derivs., calcium salts (TBN > 300). May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)