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

1.1. Product identifier

TUNPAS WP

UFI: 2TD0-K0M6-U005-DYQE

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

1.3. Details of the supplier of the safety data sheet

Company name: TUNAP GmbH & Co. KG
Street: Buergermeister-Seidl-Strasse 2
Place: D-82515 Wolfratshausen
Telephone: +49 (0) 8171/1600-0 Telefax: +49 (0) 8171/1600-40
E-mail: sdb@tunap.com
Internet: www.tunap.com

1.4. Emergency telephone number:

1774 / +356 2559 4600

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

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)			
13463-67-7	titanium dioxide (Nano)			10 - < 20 %
	236-675-5	022-006-00-2		
	Carc. 2; H351			
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts			0.1 - < 1 %
	939-603-7		01-2119978241-36	
	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			
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			
61789-86-4	Sulfonic acids, petroleum, calcium salts			0.1 - < 1 %
	263-093-9		01-2119488992-18	
	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		
13463-67-7	236-675-5	titanium dioxide (Nano)	10 - < 20 %
	inhalation: LC50 = > 6,8 mg/l (dusts or mists); dermal: LD50 = > 10000 mg/kg; oral: LD50 = > 10000 mg/kg		
1471316-72-9	939-603-7	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	0.1 - < 1 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 10000 - < 20000 mg/kg Skin Sens. 1B; H317: >= 10 - 100		
68584-23-6	271-529-4	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	0.1 - < 1 %
	inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg Skin Sens. 1B; H317: >= 10 - 100		
70024-69-0	274-263-7	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	0.1 - < 1 %
	inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 4000 mg/kg; oral: LD50 = > 16000 mg/kg Skin Sens. 1B; H317: >= 10 - 100		
61789-86-4	263-093-9	Sulfonic acids, petroleum, calcium salts	0.1 - < 1 %
	inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 16000 mg/kg Skin Sens. 1B; H317: >= 10 - 100		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

After inhalation

Remove person to fresh air and keep comfortable for breathing.

After contact with skin

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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

Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

For non-emergency personnel

First aider: Pay attention to self-protection!

For emergency responders

Fight fire with normal precautions from a reasonable distance.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

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

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe instructions for use.
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Avoid exposure. Wear suitable protective clothing. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

Do not store together with: Pyrophoric or self-heating substances. Food and feedingstuffs.

Further information on storage conditions

Store in a cool dry place.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts			
Worker DNEL, acute		dermal	local	1,04 mg/cm²
Consumer DNEL, long-term		inhalation	systemic	8,7 mg/m³
Consumer DNEL, long-term		dermal	systemic	12,5 mg/kg bw/day
Consumer DNEL, acute		dermal	local	0,518 mg/cm²
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	35,26 mg/m³
Worker DNEL, long-term		dermal	systemic	25 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
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	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

PNEC values

CAS No	Name of agent	
Environmental compartment		Value
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	
Freshwater		0,1 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,1 mg/l
Freshwater sediment		45211 mg/kg
Marine sediment		45211 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		36739,74 mg/kg
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		226000000 mg/kg
Marine sediment		226000000 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg
61789-86-4	Sulfonic acids, petroleum, calcium salts	
Freshwater		1 mg/l
Freshwater (intermittent releases)		10 mg/l
Marine water		1 mg/l
Freshwater sediment		226000000 mg/kg
Marine sediment		226000000 mg/kg
Secondary poisoning		16,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		271000000 mg/kg

Additional advice on limit values

a no restriction
b End of exposure or end of shift
c at long-term exposure:
d before next shift

blood (B)
Urine (U)

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection:
EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Suitable material: NBR (Nitrile rubber) Breakthrough time: 480min
Thickness of the glove material 0,45 mm
EN ISO 374

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Filtering device with filter or ventilator filtering device of type: A
Observe the wear time limits as specified by the manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste
Colour:	
Odour:	characteristic

		Test method
Melting point/freezing point:	No information available.	
Boiling point or initial boiling point and boiling range:	> 100 °C	
Flammability:	not determined not applicable	
Lower explosion limits:	No information available.	
Upper explosion limits:	No information available.	
Flash point:	> 150 °C	ISO 3679
Auto-ignition temperature:	No information available.	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	not applicable	DIN 19268
Viscosity / kinematic: (at 40 °C)	> 20,5 mm²/s	DIN EN ISO 3104
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	

Solubility in other solvents
not determined

Partition coefficient n-octanol/water:	No information available.
Vapour pressure:	No information available.
Density (at 20 °C):	1,2 g/cm³ DIN 51757
Relative vapour density:	No information available.

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid:	not determined
Gas:	not applicable

Oxidizing properties
Not oxidising.

Other safety characteristics

Evaporation rate:	No information available.

Solvent separation test:	No information available.	
Solvent content:	No information available.	
Solid content:	No information available.	
Sublimation point:	No information available.	
Softening point:	No information available.	
Viscosity / dynamic:	No information available.	DIN 53019-1
Flow time: (at 20 °C)	No information available.	DIN EN ISO 2431

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Take precautionary measures against static discharges.

10.5. Incompatible materials

Pyrophoric or self-heating substances.

Further information

Do not mix with other chemicals.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No information available.

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
13463-67-7	titanium dioxide (Nano)				
	oral	LD50 > 10000 mg/kg	Rat		
	dermal	LD50 > 10000 mg/kg	Rabbit		
	inhalation (4 h) dust/mist	LC50 > 6,8 mg/l	Rat		
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts				
	oral	LD50 > 10000 - < 20000 mg/kg	Rat	Study report (1972)	Adult albino male Sprague-Dawley rats we
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1989)	OECD Guideline 402
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rat		
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 4000 mg/kg	Rabbit	Study report (1986)	other: 40 CFR, Section 163.81-2, Federal
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		
61789-86-4	Sulfonic acids, petroleum, calcium salts				
	oral	LD50 > 16000 mg/kg	Rat	Study report (1981)	other: Section 772 .112-21 CFR 40
	dermal	LD50 > 5000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 >5 mg/l	Rat		

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.

Sensitising effects

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

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.

No indications of human germ cell mutagenicity exist.

No indications of human reproductive toxicity exist.

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

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

Information on likely routes of exposure

, Inhalation, Skin contact, Eye contact.
Reference to other sections: 2.1, 4.2.

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

11.2. Information on other hazards

Endocrine disrupting properties

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

Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
13463-67-7	titanium dioxide (Nano)						
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	61 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50	> 10 mg/l	48 h			
	Fish toxicity	NOEC	> 1000 mg/l	2 d	Leuciscus idus (golden orfe)		
	Algae toxicity	NOEC	1 mg/l	3 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC	> 3 mg/l	30 d			
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts						
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1994)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h		Study report (1993)	EPA OTS 797.1300
	Acute bacteria toxicity	EC50	> 10000 mg/l ( )	3 h	activated sludge of a predominantly domestic sewag	Study report (1994)	OECD Guideline 209
68584-23-6	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts						
	Acute fish toxicity	LC50	>10000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	>1000 mg/l	96 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h			
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts						
	Acute fish toxicity	LC50	>10000 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	REACh Registration Dossier	EPA OTS 797.1050
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h		REACh Registration Dossier	EPA OTS 797.1300
	Acute bacteria toxicity	EC50	> 10000 mg/l ( )	3 h	activated sludge of a predominantly domestic sewag	REACh Registration Dossier	OECD Guideline 209
61789-86-4	Sulfonic acids, petroleum, calcium salts						
	Acute fish toxicity	LC50	>10000 mg/l	96 h			
	Acute algae toxicity	ErC50	> 1000 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1994)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50	> 1000 mg/l	48 h		Study report (1993)	EPA OTS 797.1300

	Acute bacteria toxicity	EC50 mg/l ( )	> 10000	3 h	activated sludge of a predominantly domestic sewag	Study report (1994)	OECD Guideline 209

12.2. Persistence and degradability

There are no data available on the mixture itself. 0

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	> 6,91
70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	18,05
61789-86-4	Sulfonic acids, petroleum, calcium salts	> 4,46

BCF

CAS No	Chemical name	BCF	Species	Source
1471316-72-9	Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts	70,8	Fish, not further specified.	Study report (2013)

12.4. Mobility in soil

No information available.

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.

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

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

List of Wastes Code - used product

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Directive 2010/75/EU on industrial emissions:	No information available.
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,6,11,16.

Abbreviations and acronyms

Skin Sens: Skin sensitisation
Carc: Carcinogenicity
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL/DMEL: Derived No Effect Level / Derived Minimal Effect Level
WEL: Workplace Exposure Limits
TWA (EC): Time-Weighted Average
ATE: Acute Toxicity Estimate
ATEL (EC): Short Term Exposure Limit
LC50: Lethal Concentration
EC50:half maximal Effective Concentration
ErC50: means EC50 in terms of reduction of growth rate

Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
EUH210	Safety data sheet available on request.

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.)