

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

### 1.1 product identifier

trade name: GEKA PG 460  
article number: 63167

### 1.2 relevant identified uses of the substance or mixture and uses advised against

relevant identified uses  
Lubricating oil  
PROFESSIONAL, INDUSTRIAL  
the product is not intended for consumer use

### 1.3 details of the supplier of the safety data sheet

KALTENBACH GMBH & CO. KG  
BLASIRING 4  
79539 LÖRRACH

Telephone +49 - 7621 - 175 - 323  
e-mail (competent person) M.GUENTERT@KALTENBACH.DE

### 1.4 emergency telephone number

only available during office hours: 08.00-16.00

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.4S	skin sensitisation	1	Skin Sens. 1	H317
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects  
Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling

- Signal word warning

- Pictograms

GHS07, GHS09



- Hazard statements

H317 May cause an allergic skin reaction.

# Safety data sheet

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



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- H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Hazardous ingredients for labelling N-1-naphthylaniline

## 2.3 Other hazards

Results of PBT and vPvB assessment  
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties  
Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

Hazardous ingredients acc. to GHS					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes	
N-1-naphthylaniline	CAS No 90-30-2  EC No 201-983-0	< 3	Acute Tox. 4 / H302 Skin Sens. 1B / H317 STOT RE 2 / H373 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
2,6-di-tert-butyl-p-cresol	CAS No 128-37-0  EC No 204-881-4	< 1	Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	CAS No 110-25-8  EC No 701-177-3	< 1	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Aquatic Acute 1 / H400 Aquatic Chronic 3 / H412		
Name of substance	Specific Conc. Limits		M-Factors	ATE	Exposure route
N-1-naphthylaniline	-		-	1,625 mg/kg	oral
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	-		-	11 mg//4h 1.37 mg//4h	inhalation: vapour inhalation: dust/mist

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Fire extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Sand

##### Unsuitable extinguishing media

Water jet

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

#### 6.3 Methods and material for containment and cleaning up

##### Advice on how to contain a spill

Covering of drains

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**Advice on how to clean up a spill**

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

**Appropriate containment techniques**

Use of adsorbent materials.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Recommendations**

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas.

**Advice on general occupational hygiene**

Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink.

**7.2 Conditions for safe storage, including any incompatibilities**

**Control of effects**

No special measures are necessary. No hazardous reaction when handled and stored according to provisions.

**Protect against external exposure, such as**

Heat, Frost

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

**7.3 Specific end use(s)**

See section 16 for a general overview.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
GB	2,6-di-tert-butyl-p-cresol	128-37-0	WEL		10						EH40/2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur  
 STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
 TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Remarks

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Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified). Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified).

Relevant DNELs of components						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
N-1-naphthylaniline	90-30-2	DNEL	0.18 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
N-1-naphthylaniline	90-30-2	DNEL	44 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
N-1-naphthylaniline	90-30-2	DNEL	0.05 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N-1-naphthylaniline	90-30-2	DNEL	6.67 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
2,6-di-tert-butyl-p-cresol	128-37-0	DNEL	3.5 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2,6-di-tert-butyl-p-cresol	128-37-0	DNEL	0.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	DNEL	0.8 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	DNEL	4.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

## Remarks

The product is not intended for consumer use.

Relevant PNECs of components						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
N-1-naphthylaniline	90-30-2	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
N-1-naphthylaniline	90-30-2	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
N-1-naphthylaniline	90-30-2	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N-1-naphthylaniline	90-30-2	PNEC	0.034 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N-1-naphthylaniline	90-30-2	PNEC	0.003 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
N-1-naphthylaniline	90-30-2	PNEC	0.007 mg/kg	terrestrial organisms	soil	short-term (single instance)
2,6-di-tert-butyl-p-cresol	128-37-0	PNEC	0.199 µg/l	aquatic organisms	freshwater	short-term (single instance)
2,6-di-tert-butyl-p-cresol	128-37-0	PNEC	0.02 µg/l	aquatic organisms	marine water	short-term (single instance)
2,6-di-tert-butyl-p-cresol	128-37-0	PNEC	0.17 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,6-di-tert-butyl-p-cresol	128-37-0	PNEC	99.6 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,6-di-tert-butyl-p-cresol	128-37-0	PNEC	9.96 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
2,6-di-tert-butyl-p-	128-37-0	PNEC	47.69 µg/kg	terrestrial organisms	soil	short-term (single instance)

cresol						instance)
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	PNEC	0.004 mg/l	aquatic organisms	freshwater	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	PNEC	1 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	PNEC	0.057 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	PNEC	0.006 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
N-methyl-N-[C18-(unsaturated)alkanoyl] glycine	110-25-8	PNEC	1.71 mg/kg	terrestrial organisms	soil	short-term (single instance)

## 8.2 Exposure controls

Appropriate engineering controls

No special handling advices are necessary.

Individual protection measures (personal protective equipment)

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material (long-term)

NBR: acrylonitrile-butadiene rubber (0,425 mm), Breakthrough times of the glove material: 240-480 min

- Type of material (short-term)

NBR: acrylonitrile-butadiene rubber (0,12 mm), Breakthrough times of the glove material: 10-30 min

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

physical state	liquid
colour	colourless - light yellow
odour	characteristic
melting point/freezing point	not determined
boiling point or initial boiling point and boiling range	not determined

flammability	this material is combustible, but will not ignite readily
flash point	>230 °C
auto-ignition temperature	not determined
decomposition temperature	not relevant
pH (value)	not determined
kinematic viscosity	135 – 748 mm <sup>2</sup> /s at 40 °C
Solubility(ies)	
water solubility	insoluble
Partition coefficient	
partition coefficient n-octanol/water (log value)	this information is not available
vapour pressure	not determined
Density and/or relative density	
density	not determined
relative vapour density	information on this property is not available
particle characteristics	not relevant (liquid)

## 9.2 Other information

information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
other safety characteristics	there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.  
Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## Classification acc. to GHS

### Acute toxicity

The classification criteria for these hazard classes are not met.

#### Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
N-1-naphthylaniline	90-30-2	oral	LD50	1,625 mg/kg	rat
N-1-naphthylaniline	90-30-2	dermal	LD50	>5,000 mg/kg	rabbit
2,6-di-tert-butyl-p-cresol	128-37-0	oral	LD50	>6,000 mg/kg	rat
2,6-di-tert-butyl-p-cresol	128-37-0	dermal	LD50	>2,000 mg/kg	rat
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	110-25-8	oral	LD50	>5,000 mg/kg	rat
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	110-25-8	inhalation: dust/mist	LC50	1.37 mg/l/4h	rat

### Skin corrosion/irritation

The classification criteria for this hazard class are not met.

### Serious eye damage/eye irritation

The classification criteria for this hazard class are not met.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

The classification criteria for this hazard class are not met.

### Carcinogenicity

The classification criteria for this hazard class are not met.

### Reproductive toxicity

The classification criteria for this hazard class are not met.

### Specific target organ toxicity - single exposure

The classification criteria for this hazard class are not met.

### Specific target organ toxicity - repeated exposure

The classification criteria for this hazard class are not met.

### Aspiration hazard

The classification criteria for this hazard class are not met.

## 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

#### Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
N-1-naphthylaniline	90-30-2	EC50	>10,000 mg/l	microorganisms	3 h
2,6-di-tert-butyl-p-cresol	128-37-0	EC50	0.096 mg/l	aquatic invertebrates	21 d
N-methyl-N-[C18-(unsaturated)alkanoyl]gly	110-25-8	EC50	1,300 mg/l	microorganisms	3 h



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## 12.2 Persistence and degradability

Data are not available.

### Degradability of components

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
N-methyl-N-[C18-(unsaturated)alkanoyl]glycine	110-25-8	carbon dioxide generation	85.2 %	28 d		ECHA

## 12.3 Bioaccumulative potential

### Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
N-1-naphthylaniline	90-30-2		4.28	
2,6-di-tert-butyl-p-cresol	128-37-0		5.1	

## 12.4 Mobility in soil

Data are not available.

## 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

## 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

## 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Relevant provisions relating to waste

#### Waste code (EU)

- Product

13 02 05\* mineral-based non-chlorinated engine, gear and lubricating oils

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number or ID number

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ADR/RID	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082
<b>14.2 UN proper shipping name</b>	
ADR/RID	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	N-1-naphthylaniline, 2,6-di-tert-butyl-p-cresol
<b>14.3 Transport hazard class(es)</b>	
ADR/RID	9
IMDG-Code	9
ICAO-TI	9
<b>14.4 Packing group</b>	
ADR/RID	III
IMDG-Code	III
ICAO-TI	III
<b>14.5 Environmental hazards</b>	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	N-1-naphthylaniline, 2,6-di-tert-butyl-p-cresol
<b>14.6 Special precautions for user</b>	
Provisions for dangerous goods (ADR) should be complied within the premises.	
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	
The cargo is not intended to be carried in bulk.	

**Information for each of the UN Model Regulations**

**Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - Additional information**

Classification code	M6
Danger label(s)	9, fish and tree
	
Environmental hazards	YES (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L

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Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	3Z


**Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - Additional information**

Classification code	M6
Danger label(s)	9, fish and tree
	
Environmental hazards	YES (hazardous to water)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Hazard identification No	90

**International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant	YES (hazardous to the aquatic environment) (N-1-naphthylaniline)
Danger label(s)	9, fish and tree
	
Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

**International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Environmental hazards	YES (hazardous to the aquatic environment)
Danger label(s)	9, fish and tree
	
Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### Seveso Directive

2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200	500	57)

Notation

57) hazardous to the Aquatic Environment in category Chronic 2

##### Industrial Emissions Directive (IED)

VOC content 0 %

##### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

##### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

##### Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
2,6-di-tert-butyl-p-cresol		a)	

Legend

a) Indicative list of the main pollutants

##### Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

##### Regulation on drug precursors

none of the ingredients are listed

##### Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

##### National regulations (GB)

##### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

##### Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name of substance	Name acc. to inventory	CAS No	No
GEKA PG 460	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC		3

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## National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

### Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

## 15.2 Chemical safety assessment

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

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$ .	yes
3.2		Hazardous ingredients acc. to GHS: change in the listing (table)	yes
9.1	Lower and upper explosion limit: not determined		yes
12.5	Results of PBT and vPvB assessment: Data are not available.	Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$ .	yes
12.6	Endocrine disrupting properties: None of the ingredients are listed.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0,1\%$ .	yes

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14.7	Classification code: 9	Classification code: M6	yes
15.1	Restrictions according to REACH, Annex XVII		yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1	List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list: none of the ingredients are listed		yes
15.1	Water Framework Directive (WFD): none of the ingredients are listed	Water Framework Directive (WFD)	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
15.1		Regulation on the marketing and use of explosives precursors: none of the ingredients are listed	yes
15.1		Regulation on drug precursors: none of the ingredients are listed	yes
15.1		National regulations (GB)	yes
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: none of the ingredients are listed	yes
15.1		Restrictions according to GB REACH, Annex 17	yes
15.1		Dangerous substances with restrictions (GB REACH, Annex 17): change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes

## Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand

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CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

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## Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.