JB GERMAN OIL Longlife ASIA C3 5W-30

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

1.1. Product identifier

Trade name/designation:

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Article No.:
j2092

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

Use of the substance/mixture:
Lubricant

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

JB German Oil GmbH & Co.KG.
Wölzower Weg 13 – 19
19243 Wittenburg
Germany
Telephone: +49 (0) 38852 90620
Telefax: +49 (0) 38852 906220
E-mail: Vertrieb@jb-germanoil.de
Website: www.jb-germanoil.de
E-mail (competent person): vertrieb@jb-germanoil.de

1.4. Emergency telephone number

Abt. Produktsicherheit, 24h: +49 700 24 112 112 (Company ID: LUB) (outside USA/Canada), 011 49 700 24 112 112 (Company ID: LUB) (inside USA/Canada), +49 (0) 38852 90620 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

*

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard components for labelling:
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased

Hazard statements: -

Supplemental hazard information	
EUH208	Contains Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts, Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, calcium salts. May produce an allergic reaction.

Precautionary statements: -

2.3. Other hazards

No data available

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SECTION 3: Composition / information on ingredients

*
3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen-tration
CAS No.: 64742-54-7 **EC No.:** 265-157-1 **REACH No.:** 01-2119484627-25	**Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	54 – ≤ 90.98 weight-%
CAS No.: 148520-84-7 **EC No.:** 800-941-4	**Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, calcium salts** Skin Sens. 1B **Warning** H317	0 – < 0.24 weight-%
CAS No.: 70024-69-0 **EC No.:** 274-263-7 **REACH No.:** 01-2119492616-28	**Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts** Skin Sens. 1B **Warning** H317	0 – < 0.24 weight-%
CAS No.: 68784-26-9 **EC No.:** 701-251-5 **REACH No.:** 01-2119524004-56	**Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased** Aquatic Chronic 4, Repr. 1B **Danger** H360-H413	0 – < 0.24 weight-%
CAS No.: 68649-42-3 **EC No.:** 272-028-3	**Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts** Aquatic Acute 1, Aquatic Chronic 3, Eye Irrit. 2 **Danger** H319-H400-H412	0 – ≤ 0.15 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:
Provide fresh air. Consult a doctor immediately.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately.

Following ingestion:
Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately. Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed
No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Use water spray jet to protect personnel and to cool endangered containers. Water spray jet alcohol resistant foam Extinguishing powder Carbon dioxide (CO2)

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Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
During heating or in case of fire, toxic gases is possible.
The formation of combustible vapours is possible at temperatures above: Flash point Combustible

Hazardous combustion products:
Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx),
During heating or in case of fire, toxic gases is possible. In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Protective clothing. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Use personal protection equipment. Special danger of slipping by leaking/spilling product. Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:
Remove persons to safety.

6.1.2. For emergency responders

Personal protection equipment:
Use personal protection equipment. Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:
Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:
Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

6.5. Additional information
Clear spills immediately. Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Personal protection equipment: see section 8 When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination. Wear personal protection equipment (refer to section 8).

Fire prevent measures:
No special fire protection measures are necessary. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Environmental precautions:
See section 8.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels:
Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product.
Keep/Store only in original container.

Hints on storage assembly:
not required

Storage class: 10 – Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Store in a cool dry place. Keep away from heat.

7.3. Specific end use(s)

Recommendation:
Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

*

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Zinc bis[O-(2-ethylhexyl)] bis[O-(isobutyl)] bis(di thiophosphate) CAS No.: 26566-95-0	6.6 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	11.75 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	3.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Isomer mixture of C7-9-alkyl-3- (3,5-di-trans-butyl-4-hydroxyphenyl) propionate CAS No.: 125643-61-0	2.33 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	4.37 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	1.09 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.62 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.31 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.31 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS No.: 64742-65-0	9.33 mg/kg	① PNEC secondary poisoning
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	1 mg/l	① PNEC aquatic, freshwater
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	1 mg/l	① PNEC aquatic, marine water
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	1,000 mg/l	① PNEC sewage treatment plant
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	16.667 mg/kg bw/day	① PNEC secondary poisoning
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts CAS No.: 70024-69-0	10 mg/l	① PNEC aquatic, intermittent release
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.0338 mg/l	① PNEC aquatic, freshwater
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.0038 mg/l	① PNEC aquatic, marine water
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	10 mg/l	① PNEC sewage treatment plant
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.446 mg/kg	① PNEC sediment, freshwater
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	0.0446 mg/kg	① PNEC sediment, marine water
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS No.: 68411-46-1	2.59 mg/kg	① PNEC soil

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

During transfer: Eye glasses with side protection
Wear eye/face protection. DIN EN 166

Skin protection:

Hand protection
Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)
Thickness of the glove material: >= 0,4 mm
Breakthrough time: 480 min

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.
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.
Tested protective gloves must be worn: EN ISO 374

Suitable protective clothing: Protective clothing In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

Usually no personal respirative protection necessary. Filtering device with filter or ventilator filtering device of type: A

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

Mineral oil mist limits:
OSHA PEL - value 5 mg / m³, ACGIH STEL - value of 10 mg / m³

SECTION 9: Physical and chemical properties

*

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: tawny
Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	6.5	20 °C		
Melting point	*not determined*			
Freezing point	-36 °C			
Initial boiling point and boiling range	*not determined*			
Decomposition temperature	*not determined*			
Flash point	242 °C			
Evaporation rate	*not determined*			
Auto-ignition temperature	*not determined*			
Upper/lower flammability or explosive limits	*not determined*			
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	849 kg/m³	15 °C		
Bulk density	*not determined*			

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parameter		at °C	Method	Remark
Water solubility	*not determined*			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	*not determined*			
Kinematic viscosity	72 mm²/s	40 °C		

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No known hazardous reactions. Combustible

10.2. Chemical stability
The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
To avoid thermal decomposition do not overheat.

10.5. Incompatible materials
Materials to avoid: Acid, Oxidising agent, Reducing agent

10.6. Hazardous decomposition products
Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx) Gases/ vapours, toxic

SECTION 11: Toxicological information

*
11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
70024-69-0	Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	**LD_{50} oral:** >5,000 mg/kg (Rat) **LD_{50} dermal:** >2,000 mg/kg (Rabbit)
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified	**LD_{50} oral:** 5,000 mg/kg (Rat) OECD 401 **LD_{50} dermal:** 5,000 mg/kg (Rabbit) OECD 402 **LC_{50} Acute inhalation toxicity (dust/mist):** 5.53 mg/l 4 h (Rat) OECD 403

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Contains Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts, Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, calcium salts. May produce an allergic reaction.

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

Additional information:
No data available

SECTION 12: Ecological information

* 12.1. Toxicity

CAS No.	Substance name	Toxicological information
70024-69-0	Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	**LC_{50}:** >1,000 mg/l 4 d (fish) **EC_{50}:** >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) **ErC_{50}:** >1,000 mg/l 3 d (Algae/water plant)
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified	**LC_{50}:** 100 mg/l 4 d (fish) **NOEC:** 100 mg/l 4 d (fish) **EC_{50}:** 10,000 mg/l 2 d (crustaceans) **LC_{50}:** 10,000 mg/l 4 d (crustaceans) **NOEC:** 100 mg/l 3 d (Algae/water plant)

* 12.2. Persistence and degradability
No data available

* 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OW}	Bioconcentration factor (BCF)
70024-69-0	Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	22.12	

* 12.4. Mobility in soil
No data available

* 12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
148520-84-7	Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, calcium salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
70024-69-0	Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
68784-26-9	Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	—
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base oil - not specified	The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
No data available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

Waste treatment options
Appropriate disposal / Product:
Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Non-contaminated packages may be recycled.

13.2. Additional information
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation
Other regulations (EU):
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.
Safety data sheet available for professional user on request.

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15.1.2. National regulations

[DE] National regulations

Störfallverordnung

for substances contained in the product:

This product is not assigned to a hazard category.
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Technische Anleitung Luft (TA-Luft)

Remark:

To follow: 5.2.5

Water hazard class

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe

TRGS 510
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868
Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

Other regulations, restrictions and prohibition regulations

Altöl-Verordnung (AltölV)

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on toxicological effects
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.4.	Mobility in soil
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive
1999/45/EEC - Dangerous Preparations Directive
EC 1907/2006 - REACH Regulation
1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006
Regulation (EC) No 1907/2006 (REACH), Annex II
European Chemicals Agency (ECHA), C & L classification and labeling inventory
European Chemicals Agency (ECHA), ECHA CHEM Registered substances
OECD The Global Portal to Information on Chemical Substances (ChemPortal)
Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances
Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6. Training advice

No data available

16.7. Additional 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.

* Data changed compared with the previous version