Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 05.05.2025 Version number 4.00 (replaces version 3.00) Revision: 05.05.2025

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

1.1 Product identifier
Trade name: CLASSIC HAMDIR UB 46 HEES

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
Application of the substance / the mixture Hydraulic fluid

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
CLASSIC Schmierstoff GmbH & Co. KG
Lange Straße 100-106
D-27318 HOYA
DEUTSCHLAND
Telephone: +49 (4251) - 8120
products@classic-oil.de

Further information obtainable from: product management

1.4 Emergency telephone number: 24-hour emergency contact number : +1 872 5888271 (CSG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms Void
Signal word Void
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional information:
Contains: Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine. May produce an allergic reaction.

2.3 Other hazards For information or further instructions, see also section 11 or 12.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description:
Chemical characterization
Mineral oil
Additive

Dangerous components:		
CAS: 128-39-2 EINECS: 204-884-0 Reg.nr.: 01-2119490822-33	2,6-di-tert-butylphenol Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315	0.3-<0.5%
CAS: 68411-46-1 EINECS: 270-128-1 Reg.nr.: 01-2119491299-23	Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene Repr. 2, H361f; Aquatic Chronic 3, H412	0.3-<0.5%

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EC number: 947-263-6 Reg.nr.: 01-2120761103-66	Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione Repr. 2, H361; Skin Irrit. 2, H315; Aquatic Chronic 4, H413	0.1-<0.2%
EC number: 939-700-4 Reg.nr.: 01-2119982395-25	Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1B, H317	0.1-<0.2%

SVHC
This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.
Additional information: For the wording of the listed hazard phrases refer to 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.
If possible, show operating instructions or safety data sheet.
After inhalation:
In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.
After skin contact:
After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.
After eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.
After swallowing:
Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect).
Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.
4.2 Most important symptoms and effects, both acute and delayed
If swallowed or vomited, danger of entering the lungs.
4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
Sand. Foam. Carbon dioxide (CO2).Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
When burning strong soot development
Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2) Sulphur dioxide (SO2) Nitrogenoxides (NOx)

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5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.
Protective equipment: Wear self-contained respiratory protective device.
Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
For non-emergency personnel Personal protective equipment
For emergency responders No special precautions are necessary.
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). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.
6.3 Methods and material for containment and cleaning up:
For containment
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.
For cleaning up
Clean contaminated objects and areas thoroughly observing environmental regulations.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Wear suitable protective clothing.
Avoid formation of oil dust.
Information about fire - and explosion protection:
Usual measures of preventive fire protection
Keep ignition sources away - Do not smoke.
Fire class B

Handling:
Information on general hygiene measures at the workplace:
Ensure thorough skin cleansing and skin care after work.
Do not carry product-soaked cleaning rags in trouser pockets.
Do not wear contaminated work clothing outside the workplace.
Wash contaminated clothing before wearing again.
Do not breathe vapour/aerosol. Avoid contact with eyes and skin.
Advices on general occupational hygiene: See section 8.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:
Keep container tightly closed in a dry, cool and well-ventilated place.
Use only receptacles specifically permitted for this substance/product.
Information about storage in one common storage facility:
Do not store together with: Gas. Explosives. Oxidizing substances. Radioactive substances. Infectious substances.

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Further information about storage conditions:
Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.
Storage class: 10
7.3 Specific end use(s) See section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
CAS: 128-39-2 2,6-di-tert-butylphenol		
Oral	DNEL Long-term Oral (Systemic)	6.75 mg/kg bw/Tag (Consumer)
Dermal	DNEL, long-term, dermal, systemic	11.25 mg/kg KG/d (worker)
		6.75 mg/kg KG/d (Consumer)
Inhalative	DNEL, long-term, inhalation, systemic	70.61 mg/m³ (worker)
	DNEL, long-term, inhalation, systemic	20.9 mg/m³ (Consumer)
CAS: 68411-46-1 Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene		
Oral	DNEL Long-term Oral (Systemic)	0.05 mg/kg bw/Tag (Consumer)
Dermal	DNEL, long-term, dermal, systemic	0.44 mg/kg KG/d (Consumer)
	DNEL, long-term, dermal, systemic	0.22 mg/kg KG/d (worker)
Inhalative	DNEL, long-term, inhalation, systemic	0.8 mg/m³ (worker)
	DNEL, long-term, inhalation, systemic	0.31 mg/m³ (Consumer)
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione		
Oral	DNEL(long/systemic)	0.625 mg/kg bw/d (Consumer)
Dermal	DNEL(long/systemic)	1.04 mg/kg bw/d (worker)
		0.625 mg/kg bw/d (Consumer)
Inhalative	DNEL(long/systemic)	3.72 mg/m3 (worker)
		1.1 mg/m3 (Consumer)
Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine		
Oral	DNEL Long-term Oral (Systemic)	0.2 mg/kg bw/Tag (Consumer)
Dermal	DNEL Long-term Dermal (Systemic)	0.4 mg/kg bw/d (worker)
		0.2 mg/kg bw/d (Consumer)
Inhalative	DNEL Long-term Inhalation (Systemic)	1.3 mg/m³ (worker)
		0.3 mg/m³ (Consumer)

PNECs	
CAS: 128-39-2 2,6-di-tert-butylphenol	
PNEC (Freshwater)	0.001 mg/l
Freshwater (intermittent releases)	0.004 mg/l
PNEC (Seawater)	0.0001 mg/l
Micro-organisms in sewage treatment plants (STP)	10 mg/l
PNEC (freshwater sediment)	0.317 mg/kg
PNEC (Seawater sediment)	0.0317 mg/kg
PNEC (ground)	0.679 mg/kg

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Secondary poisoning	60 mg/kg
CAS: 68411-46-1 Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	
PNEC	10 mg/L (Wastewater treatment plant)
PNEC	0.8333 mg/Kg (Intoxication secondaire)
PNEC (Freshwater)	0.034 mg/l
PNEC (Seawater)	0.003 mg/l
PNEC (freshwater sediment)	0.446 mg/kg
PNEC (Seawater sediment)	0.045 mg/kg
PNEC (ground)	17.6 mg/kg
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione	
PNEC	100 mg/L (Wastewater treatment plant) 0.05 mg/L (Seawater) 0.496 mg/L (Freshwater)
PNEC	3,935,351.65 mg/Kg (Soil) 377,283.06 mg/Kg (Seawater sediment) 3,772,830.55 mg/Kg (Freshwater sediment) 5 mg/Kg (Intoxication secondaire) 4.96 mg/Kg (Sporadic release)
Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine	
PNEC (Freshwater)	0.009 mg/l
PNEC (Seawater)	0.001 mg/l
Micro-organisms in sewage treatment plants (STP)	0.69 mg/l
PNEC (freshwater sediment)	0.127 mg/kg
PNEC (Seawater sediment)	0.013 mg/kg
PNEC (ground)	0.02 mg/kg

Additional information:
Additional information on limit values
Airborne limit values:
Possibility of exposure to aerosol (mineral oil).
Limit value (TLV-TWA) = 5 mg/m3 - Source: ACGIH
TLV-STEL = 10 mg/m3 - Source: ACGIH
STEL: short-term exposure limits
TLV: Threshold Limiting Value
TWA: time weighted average
ACGIH:American Conference of Governmental Industrial Hygienists

8.2 Exposure controls
Appropriate engineering controls Ensure good ventilation of the work station.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection:
With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at:
-aerosol or mist formation
-Exceeding exposure limit values
Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.
The respiratory protection filter class must be adapted to the maximum pollutant concentration (gas/vapour/aerosol/particles) that can arise when handling the product. If the concentration is exceeded, insulating equipment must be used!

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Hand protection
Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 347/EN 388.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
If gloves are to be reused, clean them before taking them off and store them in a well-ventilated place.
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Nitrile rubber, NBR
Neoprene
Viton
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection
Safety goggles with side shield, in case of increased splash hazard additional face shield. DIN EN 166
Body protection:
Heavy flammable, oil-repellent protective clothing
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).
Environmental exposure controls There are no data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	287 °C (COC)
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity at 40 °C	46.98 mm²/s (ISO 3104)
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 15 °C:	0.9204 g/cm³ (DIN 51757)
Relative density	Not determined.

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Vapour density	Not determined.
Particle characteristics	Does not apply to liquids.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Not determined.
Change in condition	
Drip point:	
Pour point	-51 °C (ASTM D 5985)
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
The product is chemically stable under recommended conditions of storage, use and temperature.
10.3 Possibility of hazardous reactions
No dangerous reactions known.
Refer to chapter 10.5.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Materials to avoid: Strong oxidizing agents
10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:		
CAS: 128-39-2 2,6-di-tert-butylphenol		
Oral	LD50 oral	>5,000 mg/kg (Rat)
Dermal	LD50 dermal	>2,000 mg/kg (Rat)
CAS: 68411-46-1 Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene		
Oral	LD50 oral	>5,000 mg/kg (Rat)
Dermal	LD50 dermal	>2,000 mg/kg (Rat)
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione		
Oral	LD50 oral	>2,000 mg/kg (Rat)
Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine		
Oral	LD50 oral	3,313 mg/kg (Rat)
Dermal	LD50 dermal	>2.000 mg/kg (Rat)

Primary irritant effect:
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 reaction mass of 1H-benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine. May cause allergic reactions. May cause sensitisation in susceptible persons.
Germ cell mutagenicity
2,6-Di-tert-butylphenol:
In vitro mutagenicity/genotoxicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test), OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative.
Literature reference: ECHA dossier; No indications of reproductive toxic effects were observed in animal experiments. -Screening; Literature reference: ECHA dossier
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:
In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result: negative. Literature reference: ECHA Dossier
Reproductive toxicity:Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test) Species: Rat Exposure duration: male: 28 d, female: 53 d. Result: NOAEL = 25 mg/kg Literature reference: ECHA Dossier
Developmental toxicity/teratogenicity: Method: other Guideline: OECD 422 Species: rat Exposure duration: male: 28 d, female: 53 d. Result: NOAEL = 25 mg/kg Literature reference: ECHA Dossier
Reaction mass of 1H-benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine:
In vitro mutagenicity/genotoxicity:
Method:
-OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
-EU Method B.13/14, EU Method B.17
Result / Assessment: negative
Literature reference: REACH Dossier

Reproductive toxicity/developmental toxicity/teratogenicity:
Method: - OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Developmental Toxicity Screening Test)
Species: Rat
Result: NOAEL (P0) = 45 mg/kg (Parental), 150 mg/kg (Reproduction); NOAEL (F1) = 45 mg/kg (Developmental)

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Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione:
Developmental toxicity/teratogenicity/reproductive toxicity:
Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Species: Rat
Result: NOAEL = 250 mg/kg
Literature reference: REACH Dossier
In-vitro mutagenicity:
Method:
-OECD Guideline 471 (Bacterial Reverse Mutation Assay)
-OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Result: negative
Literature reference: REACH Dossier
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
2,6-di-tert-butylphenol:
Subchronic oral toxicity:
Exposure time: 90d; Species: Han Wistar Rat. ; Method: OECD Guideline 408
Result: NOAEL > 270 - 298mg/kg; Literature information: ECHA Dossier
Benzenamine, N-phenyl, reaction products with 2,4,4-trimethylpentene:
Subacute oral toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test) Species: Rat
Exposure duration: male: 28 d, female: 53 d. Result: NOAEL =25 mg/kg Literature reference: ECHA Dossier
Reaction mass of 1H-benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine:
Subacute oral toxicity:
Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Species: Rat
Result: NOAEL = 45 mg/kg bw/day
Literature reference: REACH Dossier
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione:
Subacute oral toxicity:
Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Species: Rat
Result: NOAEL = 75 mg/kg
Literature reference: REACH Dossier
Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information:		
Oral	ATE	>2,000 mg/kg (Calculated)
Dermal	ATE	>2,000 mg/kg (Calculated)
Inhalative	ATE Dust/Mist	>5 mg/L (Calculated)
	ATE Vapour	>20 mg/L (Calculated)

11.2 Information on other hazards
Endocrine disrupting properties
This product does not contain any substance (> 0.1%) with endocrine disrupting properties towards non-target organisms, as no ingredient fulfils the criteria.

None of the ingredients is listed.

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Other information Frequent and prolonged skin contact may cause skin irritation.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
Harmful to aquatic life with long lasting effects.

CAS: 128-39-2 2,6-di-tert-butylphenol	
ErC50	1.4 mg/l /(72h) (Pseudokirchnerella subcapitata)
NOEC	0.023 mg/l /(21d) (Daphnia magna)
	0.053 mg/l /(42d) (Oryzias latipes)
EC50	0.45 mg/L /48 h (Daphnia)
LC50	1.4 mg/L /96 h (Pimephales promelas)
CAS: 68411-46-1 Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	
ErC50	>100 mg/l /72 h (algae)
EC50	51 mg/L /48 h (Daphnia magna)
LC50	>100 mg/L /96 h (Fish)
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione	
ErC50	370 mg/l /72 h (algae)
EC50	>1,000 mg/l /3 h (Bacteria)
LC50	>1,000 mg/L /96 h (FI)
Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine	
ErC50	0.976 mg/l /72 h (algae)
EC50	2.05 mg/L /48 h (Daphnia magna)
LC50	1.1-1.6 mg/L /96 h (Fish)

12.2 Persistence and degradability
The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

CAS: 128-39-2 2,6-di-tert-butylphenol	
Persistence and degradability	4.5 /(28d) (OECD 301C / ISO 9408 / EWG 92/69 Anhang V,C.4-F) Not easily biodegradable (according to OECD criteria).
CAS: 68411-46-1 Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	
Biological degradation	0 % Not easy.
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione	
Biological degradation	10 % Not readily biodegradable (according to OECD criteria).
Reaction mass of 1Hbenzotriazole- 1-methanamine N, NBis(2-ethylhexyl)-6-methyl- and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-5-methyl- and N, N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-benzotriazole-2-methanamine, N, N-bis(2-ethylhexyl)-4-methyl- and N, N-bis(2-ethylhexyl)-5-methyl- 1H-benzotriazole-1-methylamine	
Biological degradation	< 10 % /28 d
CLASSIC HAMDIR UB 46 HEES	
Persistence and degradability	60 % /(28d) The product is biodegradable.

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12.3 Bioaccumulative potential
No indication of bioaccumulation potential.

CAS: 128-39-2 2,6-di-tert-butylphenol	
Partition coefficient n-octanol/water	4.5
CAS: 68411-46-1 Benzeneamine, N-phenyl, reaction products with 2,4,4-trimethylpentene	
BCF	4,176
Partition coefficient n-octanol/water	6.66
Reaction products of fatty acids, C16-18, C18 unsaturated, with amines, polyethylene poly-, triethylenetetramine fraction and 3- (C9-C15, C12-rich alk-1-enyl) dihydro-2,5-furandione	
Partition coefficient n-octanol/water	>1.1–<10

12.4 Mobility in soil No further relevant 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.
The above statement applies to the substances contained in the product from 0.1 %.
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfils the criteria.
The above statement applies to the substances contained in the product from 0.1 %.

12.7 Other adverse effects
Remark: Harmful to fish
Other information: Ozone depletion potential (ODP): No information available.
Additional ecological information:
General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Contact the responsible authorised waste disposal company for waste disposal. Dispose of in accordance with official regulations.
The allocation of waste code numbers/waste designations is to be carried out according to EAVK on a sector- and process-specific basis.

European waste catalogue	
15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP14	Ecotoxic

Uncleaned packaging:
Recommendation:
Disposal must be made according to official regulations.
Non contaminated packagings may be recycled.
Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA	not regulated
ADN	UN 9006

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14.2 UN proper shipping name	
ADR, IMDG, IATA	not regulated
ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	not regulated
ADN	9; (M12)
ADN/R Class:	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	not regulated

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms Void
Signal word Void
Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category Not subject to 2012/18/EU (SEVESO III)
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 75

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

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Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

National regulations:

Information about limitation of use:
Germany:
Observe restrictions according to the Youth Employment Protection Act (JArbSchG)

Technical instructions (air):
Class Share in %
Germany:
Technical Instructions on Air Quality I:
5.2.5: Organic substances, to be indicated as total carbon
at m $\geq$ 0.50 kg/h: conc. 50 mg/m³
Proportion:>99 %
Technical Instructions on Air II:
5.2.5. I: Organic substances at m $\geq$ 0.10 kg/h: Conc. 20 mg/m³
Proportion: 0.60 %

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations
Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: not relevant
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
H361f Suspected of damaging fertility.
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.
H413 May cause long lasting harmful effects to aquatic life.

Classification according to Regulation (EC) No 1272/2008	
Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS: product management
Version number of previous version: 3.00
Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised 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: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2
Repr. 2: Reproductive toxicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4