

SAFETY DATA SHEET

pursuant to Regulation (EC) No 1907/2006, as amended by
Commission Regulation (EU) 2020/878

**HHS 5000 - 500 ML**

Version	Revised on:	SDB Number:	Date of last issue: 03.07.2025
20.0	25.09.2025	10780334-00021	Date of first issue: 22.12.2009

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Brand names	: HHS 5000 - 500 ML
Product number	: 08931063
Unique Recipe Identifier (UFI)	: FERH-90MT-8001-UTXK

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

Use of the substance/mixture	: Lubricant Product for professional use
Recommended restrictions on use	: Not applicable

1.3 Details of the supplier providing the safety data sheet

Business	: Adolf Wuerth GmbH & Co. KG Reinhold-Würth-Str. 12-17 74653 Künzelsau
Telephone	: +49 794015 0
fax	: +49 794015 10 00
Email address of the person responsible for SDS	: isi@wuerth.com

1.4 Emergency number

+49 (0)6132 – 84463

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Skin irritation, category 2

H315: Causes skin irritation.

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Specific target organ toxicity - single exposure,
Category 3

H336: May cause drowsiness and dizziness.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long-lasting effects.

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements**Labelling (REGULATION (EC) No. 1272/2008)**

Hazard pictograms



Signal word

: Danger

Hazard warnings

: H222

Extremely flammable aerosol.

H229

Pressurized container: May burst if heated.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H336

May cause drowsiness and dizziness.

H412

Harmful to aquatic life with long-lasting effects.

Safety instructions

: **Prevention:**

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Do not smoke.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P261

Avoid inhaling aerosol.

P273

Avoid release to the environment.

Storage:

P410 + P412 Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F.

Hazardous component(s) for labelling:

Propane-2-ol

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic

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2.3 Other hazards

This substance/mixture does not contain any components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

Ecological information: The substance/mixture does not contain any components which, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more which have endocrine disrupting properties.

Toxicological information: The substance/mixture does not contain any components which, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more which have endocrine disrupting properties.

SECTION 3: Composition/Information on ingredients**3.2 Mixtures****Ingredients**

Chemical name	CAS No. EC No. INDEX No. Registration number more	classification	concentration (% w/w)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 649-467-00-8 01-2119484627-25	Asp. Tox. 1; H304	>= 1 - < 10
Propane-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 1 - < 10
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane	92128-66-0 01-2119475514-35	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10
Hydrocarbons, C7, n-alkanes, Cyclic isoalkanes	64742-49-0 01-2119475515-33	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 2,5 - < 10
Amine, C12-14-Alkyl-, Isooctylp-hosphate	68187-67-7 269-119-5	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2;	>= 0,1 - < 0,25

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		H411 EUH071	
		M-factor (acute aquatic toxicity): 1	
		Estimated acute toxicity	
		Acute dermal toxicity: 2,000 mg/kg	
Benzenamine, N-phenyl-, reaction products with 2,4,4-Trimethylpenten	68411-46-1 270-128-1 01-2119491299-23	Repr. 2; H361f Aquatic Chronic 3; H412	>= 0,1 - < 0,25
Benzenesulfonic acid, C10-16-Alkylderivate, Calciumsalze	68584-23-6 271-529-4 01-2119492627-25	Skin Sens. 1B; H317 Aquatic Chronic 4; H413 Specific concentration limits Skin Sens. 1B; H317 > 10 - < 100 %	>= 0,1 - < 0,25

The explanation of abbreviations can be found in section 16.

Alternative CAS numbers for some regions

Chemical name	Alternative CAS Number(s)
Hydrocarbons, C6-C7, n-alkanes, Isoal-64742-49-0 kane, cyclic, < 5% n-hexane	

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

: In case of accident or if you feel unwell, seek medical advice immediately.
If symptoms persist or if there is any doubt, seek medical advice.

Protection of first responders

: First responders should pay attention to self-protection and use the recommended personal protective equipment if there is a risk of exposure (see section 8).

After inhalation

: If inhaled, remove to fresh air.
Consult a doctor.

After skin contact

: In case of contact, rinse skin immediately with plenty of water for at least 15 minutes, taking off contaminated clothing and shoes.

Consult a doctor.
Wash contaminated clothing before reuse.

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Clean shoes thoroughly before reusing.

After eye contact : In case of contact, rinse eyes immediately with plenty of water for at least 15 minutes.
Remove any contact lenses if possible.
Consult a doctor.

After swallowing : If swallowed, DO NOT induce vomiting.
Consult a doctor.
Rinse mouth thoroughly with water.

4.2 Most important acute and delayed symptoms and effects

Risks : Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness and dizziness.

May cause allergic reactions.

4.3 Indication of immediate medical attention or special treatment needed

Treatment: Treat symptomatically and supportively.

SECTION 5: Firefighting measures**5.1 Extinguishing agents**

Suitable extinguishing agents : Water mist
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry extinguishing agent

Unsuitable extinguishing agents : Full water jet

5.2 Special hazards arising from the substance or mixture

Special hazards when fighting fires : Backfire possible at long distances.
Vapours can form explosive mixtures with air.
Contact with combustion products can be hazardous to health.

Due to the high vapor pressure, there is a risk of the containers bursting if the temperature rises.

Dangerous combustion products : Carbon oxides

5.3 Instructions for firefighters

Special protective equipment for firefighting : In case of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Specific extinguishing methods: Adapt extinguishing measures to the surrounding environment.

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Use water spray to cool closed containers.

Remove undamaged containers from the fire area if safe to do so.

Clear the area.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Remove all ignition sources.
Use personal protective equipment.
Follow recommendations for safe handling (see section 7) and personal protective equipment (see section 8).

6.2 Environmental protection measures

Environmental protection measures: Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.

Prevent spread over large areas (e.g. by damming or oil barriers).

Retain and dispose of contaminated wash water.
If large quantities of spilled material cannot be contained, the local authorities should be notified.

6.3 Methods and materials for containment and cleaning

Cleaning methods: Use spark-proof tools.

Collect with inert absorbent material.
Knock down gases/vapours/mists with water spray.
In case of widespread contamination, prevent further spread of the substance by digging ditches or other containment measures. If material can be pumped out of the ditches, store it in suitable containers.

Remove any remaining material from the contaminated area using a suitable binding agent.
Local or national guidelines may apply to the release and disposal of the substance, as well as to the materials and articles used in the cleanup of released material. It is necessary to determine which of these guidelines apply.

Sections 13 and 15 of this SDS provide information regarding certain local or national regulations.

6.4 Reference to other sections

See sections 7, 8, 11, 12 and 13.

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SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Technical measures : See technical measures in the section "Exposure controls/Personal protection".

Local ventilation / full ventilation : If adequate ventilation is not available,
use local ventilation.
If a local workplace exposure assessment advises this, use only in an area
equipped with explosion-proof ventilation.

Instructions for safe handling time : Do not get on skin or clothing.
Avoid inhaling aerosol.
Do not swallow.
Avoid contact with eyes.
Wash skin thoroughly after use.
Based on the results of the workplace exposure assessment, handle in
accordance with standard industrial hygiene and safety practices

Keep away from heat, hot surfaces, sparks, open flames, and other ignition
sources. No smoking.
Take measures against electrostatic charges.
Measures should be taken to prevent waste/uncontrolled discharge into
the environment.
Do not spray on an open flame or other ignition source.

Hygiene measures : If exposure to chemicals is likely during normal use, eye showers and
emergency showers should be provided near the work area. Do not eat,
drink, or smoke while using the product. Wash contaminated clothing before
reuse.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers : Keep locked up. Keep tightly closed.
Store in a cool, well-ventilated place. Store in accordance with specific
national regulations. Do not pierce or burn, even after use. Keep cool.
Protect from sunlight.

it was.

Instructions for storage : Do not store with the following product types:
Self-reactive substances and mixtures
Organic Peroxide
Oxidizing agent
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which, in contact with water, are flammable

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develop bare gases

Explosives

Gase

Storage class (TRGS 510) :2B

Recommended storage temperature : < 40 °C

7.3 Specific end uses

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection**8.1 Parameters to be monitored****Workplace exposure limits**

Ingredients	CAS No.	Value type (type of Exposition)	Parameters to be monitored	basis
Isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m ³	OF TRGS 900
	Peak limitation: Exceedance factor (category): 4;(II)			
		MAK 1,000 ppm	2.400 mg/m ³	DE DFG MAK
	Peak limitation: Exceedance factor (category): 4; II			
	Further information: For the assessment of teratogenic effects, including developmental neurotoxic effects, there are either no data available or the available data are insufficient for classification in one of the groups A, B or C			
Propane	74-98-6 AGW		1.000 ppm 1.800 mg/m ³	OF TRGS 900
	Peak limitation: Exceedance factor (category): 4;(II)			
		MAK	1.000 ppm 1.800 mg/m ³	DE DFG MAK
	Peak limitation: Exceedance factor (category): 4; II			
	Further information: For the assessment of teratogenic effects, including developmental neurotoxic effects, there are either no data available or the available data are insufficient for classification in one of the groups A, B or C			
Propane-2-ol	67-63-0 AGW		200 ppm 500 mg/m ³	OF TRGS 900
	Peak limitation: Exceedance factor (category): 2;(II)			
	Further information: There is no need to fear a risk of fetal damage if the occupational exposure limit and the biological limit value (BGW) are observed			
		MAK	200 ppm 500 mg/m ³	DE DFG MAK
	Peak limitation: Exceedance factor (category): 2; II			
	Further information: A teratogenic effect is not possible if the			

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	MAK and BAT values cannot be assumed			
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane	92128-66-0 AGW		700 mg/m ³	OF TRGS 900
	Peak limitation: Exceedance factor (category): 2;(II)			
	Further information: Group limit value for hydrocarbons Solvent mixtures			
Carbon monoxide, C7, n-alkane, Cyclic isoalkanes	64742-49-0 AGW		700 mg/m ³	OF TRGS 900
	Peak limitation: Exceedance factor (category): 2;(II)			
	Further information: Group limit value for hydrocarbons Solvent mixtures			
		MAK (measured as alveolar fraction)	5 mg/m ³	DE DFG MAK
	Peak limitation: Exceedance factor (category): 4; II			
	Further information: A teratogenic effect is not possible if the MAK and BAT values cannot be assumed			
Bhutan	106-97-8 AGW		1.000 ppm 2.400 mg/m ³	OF TRGS 900
	Peak limitation: Exceedance factor (category): 4;(II)			
		MAK 1,000 ppm	2.400 mg/m ³	DE DFG MAK
	Peak limitation: Exceedance factor (category): 4; II			
	Further information: For the assessment of teratogenic effects, including developmental neurotoxic effects, there are either no data available or the available data are insufficient for classification in one of the groups A, B or C			

Biological workplace limit value

Material collection	CAS No.	To be monitored Parameter	Sampling time	basis
Propane-2-ol	67-63-0	Acetone: 25 mg/l (Blood)	End of exposure or end of shift	TRGS 903
		Acetone: 25 mg/l (Urine)	End of exposure or end of shift	TRGS 903
		Acetone: 25 mg/l (Blood)	End of exposure or end of shift	THE DFG ONE
		Acetone: 25 mg/l (Urine)	End of exposure or end of shift	THE DFG ONE

Derived no-effect level (DNEL) according to Regulation (EC) No. 1907/2006

Material collection	Scope	Expositionswe-ge	Possible health risks	Value
hydrocarbons, C7, n-alkane, Isoal- kane, cyclic	Employee inhalation		Long-term systemic effects	2085 mg/m ³

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	Employee skin contact		Long-term systemic effects	300 mg/kg Body weight/day
	consumer	inhalation	Long-term systemic effects	447 mg/m ³
	consumer	Skin contact	Long-term systemic effects	149 mg/kg Body weight/day
	consumer	Swallow	Long-term systemic effects	149 mg/kg Body weight/day
Propane-2-ol	Employee inhalation		Long-term systemic effects	500 mg/m ³
	Employee skin contact		Long-term systemic effects	888 mg/kg Body weight/day
	consumer	inhalation	Long-term systemic effects	89 mg/m ³
	consumer	Skin contact	Long-term systemic effects	319 mg/kg Body weight/day
	consumer	Swallow	Long-term systemic effects	26 mg/kg Body weight/day
Benzolamin, N-Phenyl-, reaction products with 2,4,4-Trimethylpenten	Employee inhalation		Long-term systemic effects	0,31 mg/m ³
	Employee skin contact		Long-term systemic effects	0,44 mg/kg Body weight/day
	consumer	inhalation	Long-term systemic effects	0,08 mg/m ³
	consumer	Skin contact	Long-term systemic effects	0,22 mg/kg Body weight/day
	consumer	Swallow	Long-term systemic effects	0,05 mg/kg Body weight/day
Benzenesulfonic acid, C10-16-Alkylderivate, Calcium salts	Employee inhalation		Long-term systemic effects	11,75 mg/m ³
	Employee skin contact		Long-term systemic effects	3,33 mg/kg Body weight/day
	Employee skin contact		Long-term - local Effects	1,03 mg/cm ²
	consumer	inhalation	Long-term systemic effects	2,9 mg/m ³
	consumer	Skin contact	Long-term systemic effects	1,667 mg/kg Body weight/day

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	consumer	Skin contact	Long-term - local Effects	0,513 mg/cm²
	consumer	Swallow	Long-term systemic effects	0,8333 mg/kg Body weight/day
hydrocarbons, C6-C7, n-alkane, Isoalkanes, cyclic, < 5% n-hexane	Employee inhalation		Long-term systemic effects	2035 mg/m³
	Employee skin contact		Long-term systemic effects	773 mg/kg Body weight/day
	consumer	inhalation	Long-term systemic effects	608 mg/m³
	consumer	Skin contact	Long-term systemic effects	699 mg/kg Body weight/day
	consumer	Swallow	Long-term systemic effects	699 mg/kg Body weight/day

Predicted no-effect concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance	environmental compartment	Value
name Distillates (petroleum), hydrotreated heavy paraffinic	Oral (secondary poisoning)	9,33 mg/kg Nah-rung
Propane-2-ol	Freshwater	140,9 mg/l
	Seawater	140,9 mg/l
	Temporary use/release	140,9 mg/l
	Wastewater treatment plant	2251 mg/l
	Freshwater sediment	552 mg/kg dry weight (TW)
	marine sediment	552 mg/kg dry weight (TW)
	Floor	28 mg/kg dry weight (TW)
	Oral (secondary poisoning)	160 mg/kg Nah-rung
Distillates (petroleum), hydrotreated heavy paraffinic	Oral (secondary poisoning)	9,33 mg/kg Nah-rung
Benzenamine, N-phenyl-, reaction products with 2,4,4-Trimethylpenten	Freshwater	0,034 mg/l
	Freshwater - temporarily	0,51 mg/l
	Seawater	0,003 mg/l
	Wastewater treatment plant	10 mg/l
	Freshwater sediment	0,446 mg/kg dry weight

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		(TW)
	marine sediment	0,045 mg/kg dry weight (TW)
	Floor	17.6 mg/kg dry weight (TW)
	Oral (secondary poisoning)	0,833 mg/kg food
Benzenesulfonic acid, C10-16- Alkylderivate, Calciumsalze	Freshwater	1 mg/l
	Freshwater - temporarily	10 mg/l
	Seawater	1 mg/l
	Wastewater treatment plant	1000 mg/l
	Oral (secondary poisoning)	16,667 mg/kg food

8.2 Exposure controls**Technical protective measures**

Minimize exposure concentrations in the workplace.

If adequate ventilation is not available, local ventilation must be used.

If a local workplace exposure assessment advises this, use only in an area equipped with explosion-proof ventilation.

Personal protective equipment

Eye/face protection

: Wear the following personal protective equipment:

Safety goggles

The equipment should comply with DIN EN 166

Hand protection

Material

: Nitrilkautschuk

Breakthrough time

: 480 min

Glove thickness

: 0,45 mm

Directive

: The equipment should comply with DIN EN 374

Notes

Chemical protection gloves should be selected for each specific workplace, depending on the concentration and quantity of the hazardous substance. It is recommended to check the chemical resistance of the above-mentioned protective gloves for specific applications with the glove manufacturer. Wash hands before breaks and at the end of work.

Skin and body protection

: Select appropriate protective clothing based on chemical resistance information and an assessment of potential on-site exposure.

Wear the following personal protective equipment:

If the test shows that there is a risk of explosive atmospheres or deflagrations, flame-resistant antistatic protective clothing must be worn.

Avoid skin contact by wearing impervious protective clothing.

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	avoid (gloves, aprons, boots, etc.).
Respiratory protection	: If local exhaust ventilation is not available or if the exposure assessment indicates exposures outside the recommended guidelines, use respiratory protection.
	The equipment should comply with DIN EN 137
Filter type	: Self-contained breathing apparatus

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Aggregatzustand : Aerosol

Form : Aerosol containing a liquefied gas

Propellant : Isobutane, Propane, Butane

Color : yellow

Odor : characteristic

Odor threshold : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : 60 °C

Flammability (solid, gaseous) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 10.8%(V)

Lower explosion limit / Lower flammability limit : 0.9%(V)

Flash point : -20 °C
The flash point is only relevant for the liquid part of the spray

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dose valid.

Ignition temperature : > 200 °C

Decomposition temperature : No data available

PH value : Substance/mixture is insoluble (in water)

viscosity
Viscosity, kinematic : Not applicable

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-
Octanol/Wasser : Not applicable

vapor pressure : Not applicable

density : 0,811 g/cm³ (20 °C)
Method: DIN 51757

Relative vapor density : Not applicable

Particle properties
particle size : Not applicable

9.2 Other information

Explosive substances/mixtures : Non-explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Evaporation rate : Not applicable

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SECTION 10: Stability and reactivity**10.1 Reactivity**

Not classified as hazardous.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Dangerous reactions : Extremely flammable aerosol.
Vapours can form an explosive mixture with air.

Due to the high vapor pressure, there is a risk of the containers
bursting if the temperature rises.
Reactive with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Substances to be avoided : Oxidizing agent

10.6 Hazardous decomposition products

No dangerous decomposition products are known.

SECTION 11: Toxicological information**11.1 Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008**

Information on likely routes of exposure : Inhalation
Skin contact
Swallow
Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

Acute oral toxicity : LD50 (Ratte): > 5.000 mg/kg
Method: OECD Test Guideline 401
Notes: Based on test data of similar materials

Acute inhalation toxicity : LC50 (Ratte): > 5.53 mg/l
Exposure time: 4 h
Test atmosphere: dust/fog
Method: OECD Test Guideline 403
Notes: Based on test data of similar materials

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Acute dermal toxicity : LD50 (Kaninchen): > 5.000 mg/kg
 Method: OECD Test Guideline 402
 Notes: Based on test data of similar materials

Propane-2-ol:

Acute oral toxicity : LD50 (Ratte): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Ratte): > 25 mg/l
 Exposure time: 6 h
 Test atmosphere: steam

Acute dermal toxicity : LD50 (Kaninchen): > 5.000 mg/kg

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Ratte): > 25.2 mg/l
 Exposure time: 4 h
 Test atmosphere: steam

Acute dermal toxicity : LD50 (Kaninchen): > 2.000 mg/kg

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Acute oral toxicity : LD50 (Ratte): > 5.840 mg/kg
 Notes: Based on test data of similar materials

Acute inhalation toxicity : LC50 (Ratte): > 23.3 mg/l
 Exposure time: 4 h
 Test atmosphere: steam
 Notes: Based on test data of similar materials

Acute dermal toxicity : LD50 (Ratte): > 2.800 mg/kg
 Assessment: The substance or mixture has no acute dermal toxicity
 Notes: Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

Acute oral toxicity : LD50 (Rat, female): > 200 - 2,000 mg/kg
 Method: OECD Test Guideline 423

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 2,000 mg/kg

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

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Acute oral toxicity : LD50 (Ratte): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Ratte): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Acute oral toxicity : LD50 (Ratte): > 5.000 mg/kg
Method: OECD Test Guideline 401
Notes: Based on test data of similar materials

Acute inhalation toxicity : LC50 (Ratte): > 1.9 mg/l
Exposure time: 4 h
Test atmosphere: dust/fog
Method: OECD Test Guideline 403
Notes: Based on test data of similar materials

Acute dermal toxicity : LD50 (Kaninchen): > 5.000 mg/kg
Notes: Based on test data of similar materials

Corrosive/irritating effects on the skin

Causes skin irritation.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

species : Rabbit
Result : No skin irritation
Notes : Based on test data of similar materials

Propane-2-ol:

species : Rabbit
Result : No skin irritation

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

species : Rabbit
Result : Skin irritation
Notes : Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

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species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Corrosive after exposure of four hours or less

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Mild skin irritation

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Notes	: Based on test data of similar materials

Serious eye damage/irritation

Causes serious eye irritation.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation
Notes	: Based on test data of similar materials

Propane-2-ol:

species	: Rabbit
Result	: Eye irritant, reversible within 21 days

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

species	: Rabbit
Result	: No eye irritation

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

species	: Rabbit
Result	: No eye irritation
Notes	: Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

Result	: Irreversible damage to the eyes
Notes	: Based on skin corrosivity.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation

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Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

species	: Rabbit
Method	: OPPTS 870.2400
Result	: No eye irritation
Notes	: Based on test data of similar materials

Respiratory/skin sensitization**Sensitization through skin contact**

Not classified based on available information.

Sensitization through inhalation

Not classified based on available information.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

Art of Tests	: Buehler Test
Routes of exposure	: Skin contact
species	: Guinea pigs
Method	: OECD Test Guideline 406
Result	: negative
Notes	: Based on test data of similar materials

Propane-2-ol:

Art of Tests	: Buehler Test
Routes of exposure	: Skin contact
species	: Guinea pigs
Method	: OECD Test Guideline 406
Result	: negative

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Art of Tests	: Buehler Test
Routes of exposure	: Skin contact
species	: Guinea pigs
Result:	negative

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Art of Tests	: Maximization test
Routes of exposure	: Skin contact
species	: Guinea pigs
Result	: negative
Notes	: Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

Art of Tests	: Maximization test
Routes of exposure	: Skin contact
species	: Guinea pigs

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Method	: OECD Test Guideline 406
Result	: negative

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Art of Tests	: Maximization test
Routes of exposure	: Skin contact
species	: Guinea pigs
Method	: OECD Test Guideline 406
Result	: negative

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Art of Tests	: Human Repeat Insult Patch Test (HRIPT)
Routes of exposure	: Skin contact
species	: People
Result	: positive
Notes	: Based on test data of similar materials

Evaluation	: Low or moderate skin sensitization rate in People probably or proven.
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Germ cell mutagenicity

Not classified based on available information.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

Genotoxicity in vitro	: Type of test: Bacterial reverse mutation test (AMES) Result: negative Notes: Based on test data of similar materials
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Genotoxicity in vivo	: Type of test: Mammalian erythrocyte micronucleus test (In- in vitro cytogenetics test) Species: Mouse Result: negative Notes: Based on test data of similar materials
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Propane-2-ol:

Genotoxicity in vitro	: Type of test: Bacterial reverse mutation test (AMES) Result: negative
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	Type of test: In vitro mammalian gene mutation test Result: negative
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Genotoxicity in vivo	: Type of test: Mammalian erythrocyte micronucleus test (In- in vitro cytogenetics test) Species: Mouse Route of administration: Intraperitoneal injection Result: negative
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Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Genotoxicity in vitro : Type of test: Bacterial reverse mutation test (AMES)
Result: negative

Genotoxicity in vivo : Type of test: Mammalian erythrocyte micronucleus test (In-vitro cytogenetics test)
Species: Rat
Route of administration: Inhalation (steam)
Method: OPPTS 870.5395
Result: negative

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Genotoxicity in vitro : Type of test: Chromosomal aberration test in vitro
Result: negative
Notes: Based on test data of similar materials

Type of test: Bacterial reverse mutation test (AMES)
Result: negative
Notes: Based on test data of similar materials

Type of test: In vitro mammalian gene mutation test
Method: OECD Test Guideline 476
Result: negative
Notes: Based on test data of similar materials

Germ cell mutagenicity assessment : Classified based on a benzene content of < 0.1%
(Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Amine, C12-14-Alkyl-, Isooctylphosphate:

Genotoxicity in vitro : Type of test: Bacterial reverse mutation test (AMES)
Method: OECD Test Guideline 471
Result: negative

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Genotoxicity in vitro : Type of test: Bacterial reverse mutation test (AMES)
Method: OECD Test Guideline 471
Result: negative

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Genotoxicity in vitro : Type of test: Bacterial reverse mutation test (AMES)

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Method: OECD Test Guideline 471

Result: negative

Notes: Based on test data of similar materials

Type of test: In vitro mammalian gene mutation test

Method: OECD Test Guideline 476

Result: negative

Notes: Based on test data of similar materials

Type of test: Chromosomal aberration test in vitro

Method: OECD Test Guideline 473

Result: negative

Notes: Based on test data of similar materials

Genotoxicity in vivo

: Type of test: Mammalian erythrocyte micronucleus test (In-vitro cytogenetics test)

Species: Mouse

Route of administration: Ingestion

Method: OECD Test Guideline 474

Result: negative

Notes: Based on test data of similar materials

Carcinogenicity

Not classified based on available information.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

Carcinogenicity - Assessment : Classified based on a DMSO extract content of < 3
% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note L)

Propane-2-ol:

species : Gears

Route of application : Inhalation (steam)

Exposure time : 104 weeks

Method : OECD Test Guideline 451

Result : negative

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

species : Maus

Route of application : Skin contact

Exposure time : 102 weeks

Result : negative

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Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Carcinogenicity - Assessment : Classified based on a benzene content of < 0.1%
(Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

Reproductive toxicity

Not classified based on available information.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

Effect on fertility: Type of test: Screening test for the detection of reproductive
Oral and developmental toxicity
Species: Rat
Route of administration: Ingestion
Method: OECD Test Guideline 421
Result: negative
Notes: Based on test data of similar materials

Propane-2-ol:

Effect on fertility: Type of test: Two-generation study
Reproductive toxicity
Species: Rat
Route of administration: Ingestion
Result: negative

Effects on fetal development : Type of test: Embryo-fetal development
Species: Rat
Route of administration: Ingestion
Result: negative

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Effect on fertility: Type of test: Two-generation study
Reproductive toxicity
Species: Rat
Route of administration: Inhalation (steam)
Result: negative

Effects on fetal development : Type of test: Embryo-fetal development
Species: Rat
Route of administration: Inhalation (steam)
Result: negative

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Effect on fertility: Type of test: Two-generation study
Reproductive toxicity
Species: Rat
Route of administration: Inhalation (steam)
Result: negative

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Notes: Based on test data of similar materials

Effects on fetal development : Type of test: Fertility / early embryonic development
Species: Rat
Route of administration: Inhalation (steam)
Result: negative
Notes: Based on test data of similar materials

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Effect on fertility: Type of test: One-generation reproductive toxicity
Species: Rat
Route of administration: Ingestion
Method: OECD Test Guideline 443
Result: positive

Effects on fetal development : Test type: Combined repeated dose toxicity study
Doses with screening test for reproductive /Developmental toxicity
Species: Rat
Route of administration: Ingestion
Method: OECD Test Guideline 422
Result: negative

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual reproduction and fertility from animal experiments.

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Effect on fertility: Type of test: One-generation reproductive study toxicity
Species: Rat
Route of administration: Ingestion
Method: OECD Test Guideline 415
Result: negative
Notes: Based on test data of similar materials

Effects on fetal development : Type of test: One-generation study on reproductive toxicity
Species: Rat
Route of administration: Ingestion
Method: OECD Test Guideline 415
Result: negative
Notes: Based on test data of similar materials

Specific target organ toxicity with single exposure

May cause drowsiness and dizziness.

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Ingredients:**Propane-2-ol:**

Evaluation : May cause drowsiness and dizziness.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Assessment: May cause drowsiness and dizziness.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Assessment: May cause drowsiness and dizziness.

Specific target organ toxicity with repeated exposure

Not classified based on available information.

Ingredients:**Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Evaluation : No significant health effects in animals at concentrations of
100 mg/kg bw or less.

Repeated dose toxicity**Ingredients:****Propane-2-ol:**

species : Gears
NOAEL : 12,5 mg/l
Route of application : Inhalation (steam)
Exposure time : 104 weeks

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

species : Gears
NOAEL : > 20 mg/l
Route of application : Inhalation (steam)
Exposure time : 13 weeks

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

species : Gears
NOAEL : 12,47 mg/l
Route of application : Inhalation
Exposure time : 90 Days
Notes : Based on test data of similar materials

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

species : Gears
NOAEL : 25 mg/kg
LOAEL : 75 mg/kg
Route of application : Swallowing
Exposure time : 53 Take

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Method : OECD Test Guideline 422

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

species : Gears
 NOAEL : > 300 mg/kg
 Route of application : Swallowing
 Exposure time : 29 Days
 Method : OECD Test Guideline 407
 Notes : Based on test data of similar materials

species : Gears
 NOAEL : > 600 mg/kg
 Route of application : Skin contact
 Exposure time : 28 Days
 Method : OECD Test Guideline 410
 Notes : Based on test data of similar materials

Aspiration toxicity

Not classified based on available information.

Ingredients:**Distillates (petroleum), hydrotreated heavy paraffinic:**

The substance or mixture is known to be aspiration toxic to humans or must be regarded as aspiration toxic to humans.

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

The substance or mixture is known to be aspiration toxic to humans or must be regarded as aspiration toxic to humans.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

The substance or mixture is known to be aspiration toxic to humans or must be regarded as aspiration toxic to humans.

11.2 Information on other hazards**Endocrine-disrupting properties**

Not classified based on available information.

Product:

Evaluation : The substance/mixture does not contain any components known to have endocrine disrupting properties as defined in REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1% or more.

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SECTION 12: Environmental information**12.1 Toxicity****Ingredients:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h

Test substance: Water-soluble components

Method: OECD Test Guideline 203

Notes: Based on test data of similar materials

Toxicity to
Daphnia and other aquatic
invertebrates

: EL50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Test substance: Water-soluble components

Method: OECD Test Guideline 202

Notes: Based on test data of similar materials

Toxicity to algae/aquatic
plants

: ErC50 (Pseudokirchneriella subcapitata (Green algae)): > 100
mg/l

Exposure time: 72 h

Test substance: Water-soluble components

Method: OECD Test Guideline 201

Notes: Based on test data of similar materials

NOELR (Pseudokirchneriella subcapitata (Grünalge)): > 100 mg/L

Exposure time: 72 h

Test substance: Water-soluble components

Method: OECD Test Guideline 201

Notes: Based on test data of similar materials

Toxicity to microorganisms
men

: NOEC: > 1.93 mg/l

Exposure time: 10 min

Method: DIN 38 412 Part 8

Notes: Based on test data of similar materials

Toxicity to
Daphnia and other aquatic
invertebrates
(Chronic toxicity)

: NOELR: > 1 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test substance: Water-soluble components

Method: OECD Test Guideline 211

Notes: Based on test data of similar materials

Propane-2-ol:

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Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l
Exposure time: 96 h

Toxicity to : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Daphnia and other aquatic : Exposure time: 24 h
invertebrates

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 1.050 mg/l
men : Exposure time: 16 h

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l
Exposure time: 96 h
Test substance: Water-soluble components

Toxicity to : EC50 (Daphnia magna (Water flea)): 4.5 mg/l
Daphnia and other aquatic : Exposure time: 48 h
invertebrates : Test substance: Water-soluble components
Method: OECD Test Guideline 202
Notes: Based on test data of similar materials

Toxicity to algae/aquatic : EL50 (Pseudokirchneriella subcapitata (Grünalge)): 3.1 mg/L
plants : Exposure time: 72 h
Test substance: Water-soluble components
Method: OECD Test Guideline 201
Notes: Based on test data of similar materials

NOELR (Pseudokirchneriella subcapitata (Grünalge)): 0.5 mg/L

Exposure time: 72 h
Test substance: Water-soluble components
Method: OECD Test Guideline 201
Notes: Based on test data of similar materials

Toxicity to : NOELR: 2,6 mg/l
Daphnia and other aquatic : Exposure time: 21 d
invertebrates : Species: Daphnia magna (Water flea)
(Chronic toxicity) : Method: OECD Test Guideline 211

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Toxicity to fish: LL50 (Oncorhynchus mykiss (rainbow trout)): > 13.4
mg/l
Exposure time: 96 h
Test substance: Water-soluble components
Method: OECD Test Guideline 203
Remarks: No toxicity at the solubility limit

Toxicity to : EL50 (Daphnia magna (Water flea)): 3 mg/l
Daphnia and other : Exposure time: 48 h

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barnacle aquatic animals

Test substance: Water-soluble components
Method: OECD Test Guideline 202
Notes: Based on test data of similar materials

Toxicity to algae/aquatic plants

: EL50 (Selenastrum capricornutum (Grünalge)): > 10 - 100 mg/l
Exposure time: 72 h
Test substance: Water-soluble components
Method: OECD Test Guideline 201
Notes: Based on test data of similar materials

NOELR (Selenastrum capricornutum (Grünalge)): 0,1 mg/l
Exposure time: 72 h
Test substance: Water-soluble components
Method: OECD Test Guideline 201
Notes: Based on test data of similar materials

Toxicity to
Daphnia and other aquatic
invertebrates
(Chronic toxicity)

: NOEC: 0.17 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test substance: Water-soluble components
Method: OECD Test Guideline 211
Notes: Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

Toxicity to Daphnia and other aquatic invertebrates

: EL50 (Daphnia magna (Water flea)): 17 mg/l
Exposure time: 48 h
Test substance: Water-soluble components
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants

: EL50 (Pseudokirchneriella subcapitata (Grünalge)): 0.8 mg/L
Exposure time: 72 h
Test substance: Water-soluble components
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (Grünalge)): 0.32 mg/L
Exposure time: 72 h
Test substance: Water-soluble components
Method: OECD Test Guideline 201

M-Faktor (Acute aquatic Toxicity)

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Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**Ecotoxicity assessment**

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

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city

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Toxicity to fish: LL50 (Cyprinodon variegatus (Sheephead bream)): > 100 mg/l
Exposure time: 96 h
Test substance: Water-soluble components
Method: OECD Test Guideline 203
Notes: Based on test data of similar materials

Toxicity to Daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test substance: Water-soluble components
Notes: Based on test data of similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (Green algae)): > 100 mg/l
Exposure time: 96 h
Test substance: Water-soluble components
Notes: Based on test data of similar materials

NOELR (Pseudokirchneriella subcapitata (Grünalge)): > 100 mg/L

Exposure time: 96 h
Test substance: Water-soluble components
Notes: Based on test data of similar materials

Toxicity to microorganisms : NOEC (activated sludge): > 100 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Notes: Based on test data of similar materials

12.2 Persistence and degradability**Ingredients:****Distillates (petroleum), hydrotreated heavy paraffinic:**

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 31%
Exposure time: 28 d
Method: OECD Test Guideline 301F

Propane-2-ol:

Biodegradability : Result: quickly degradable

BOD/CODE : BOD: 1,19 (BSB5)
COD: 2,23

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BOD/CODE: 53 %

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 77.05%
Exposure time: 28 d
Method: OECD Test Guideline 301F

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301F
Notes: Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 35%
Exposure time: 28 d
Method: Directive 67/548/EEC, Annex V, C.4.D.

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 1%
Exposure time: 28 d
Method: OECD Test Guideline 301B

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301D
Notes: Based on test data of similar materials

12.3 Bioaccumulative potential**Ingredients:****Propane-2-ol:**

Partition coefficient: n- : log Pow: 0,05
Octanol/Wasser

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclic, < 5% n-hexane:

Partition coefficient: n-: log Pow: 4
Octanol/Wasser Notes: Based on test data of similar materials

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic:

Partition coefficient: n- : log Pow: > 4

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Octanol/Wasser

Notes: Based on test data of similar materials

Amine, C12-14-Alkyl-, Isooctylphosphate:

Partition coefficient: n-	: log Pow: < 4
Octanol/Wasser	Notes: Expert opinion

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Partition coefficient: n-	: log Pow: > 4
Octanol/Wasser	Notes: Calculation

Benzenesulfonic acid, C10-16 alkyl derivatives, calcium salts:

Partition coefficient: n-	: log Pow: > 4
Octanol/Wasser	Notes: Expert opinion

12.4 Mobility in soil

No data available

12.5 Results of the PBT and vPvB assessment**Product:**

Evaluation	: This substance/mixture does not contain any components in Concentrations of 0.1% or higher which are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
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12.6 Endocrine disrupting properties**Product:**

Evaluation	: The substance/mixture does not contain any components known to have endocrine disrupting properties as defined in REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1% or more.
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12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment processes**

Product	: In compliance with local regulations eliminate. According to the European Waste Catalogue (EWC), waste code numbers are not product-related but application-related. Waste code numbers should be issued by the consumer, if possible in consultation with the waste disposal authorities.
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become.

Do not pour waste down the sink.

Contaminated packaging : Take empty containers to an approved waste disposal facility for recovery or disposal.

Empty containers contain product residues and can be dangerous.

Do not pressurize, cut, weld, braze, solder, drill, weld, or expose these containers to heat, flames, sparks, or other ignition sources. They may explode, causing injury and/or death.

Unless otherwise stated: Dispose of as unused product.

Spray aerosol cans completely empty (including propellant gas)

Waste code no.

: The following waste codes are only intended as recommendations:

used product

16 05 04*, gases in pressure containers containing dangerous substances
(including halons)

unused product

16 05 04*, gases in pressure containers containing dangerous substances
(including halons)

uncleaned packaging

15 01 10*, packaging containing residues of or contaminated by dangerous
substances

SECTION 14: Transport information**14.1 UN number or ID number**

DNA : UN 1950

ADR : UN 1950

RID : UN 1950

IMDG : UN 1950

BEHOLD : UN 1950

14.2 UN proper shipping name

DNA : AEROSOLS

ADR : AEROSOLS

RID : AEROSOLS

IMDG : AEROSOLS

BEHOLD : Aerosols, flammable

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14.3 Transport hazard classes

	Class	Secondary hazards
DNA	: 2	2.1
ADR	: 2	2.1
RID	: 2	2.1
IMDG	: 2.1	
BEHOLD	: 2.1	

14.4 Packing group**DNA**

Packaging group : Not established by regulation
 Classification code : 5F
 Danger label : 2.1

ADR

Packing group : Not specified by regulation
 Classification code: 5F
 Danger label: 2.1
 Tunnel restriction code: (D)

RID

Packaging group : Not established by regulation
 Classification code : 5F
 Danger identification number : 23
 Danger label : 2.1

IMDG

Packaging group : Not established by regulation
 Danger label : 2.1
 EmS Code : F-D, S-U

IATA (Cargo)

Packaging instructions : 203
 (cargo aircraft)
 Packaging instruction (LQ): Y203
 Packaging group : Not established by regulation
 Danger label : Flammable Gas

IATA (Passenger)

Packaging instructions : 203
 (passenger aircraft)
 Packaging instruction (LQ): Y203
 Packaging group : Not established by regulation
 Danger label : Flammable Gas

14.5 Environmental hazards**DNA**

Environmentally hazardous : no

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ADR	
Environmentally hazardous	: no
RID	
Environmentally hazardous	: no
IMDG	
Marine pollutant	: no

14.6 Special precautions for the user

The transport classification(s) provided herein are for informational purposes only and are based solely on the properties of the unpackaged material as described in this safety data sheet. Transport classifications may vary depending on the means of transport, package size, and variations in regional or country regulations.

14.7 Bulk cargo transport by sea according to IMO instruments

Notes : Not applicable to product in as delivered condition.

SECTION 15: Legislation

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

The restriction conditions for the following entries should be considered:

Number in list 75: If you intend to use this product as tattoo ink, please contact your retailer.

Substance(s) or mixture(s) are listed here according to their occurrence in the regulation, regardless of their use/purpose or the conditions of restriction. Please refer to the conditions in the relevant regulation.

to determine whether an entry is relevant for placing on the market or not.

REACH - Candidate list of substances of very high concern for authorisation (Article 59). : Not applicable

Regulation (EC) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic substances: Not applicable

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Pollutants (revised version)

Regulation (EU) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P3a	FLAMMABLE	Quantity 1	Quantity 2
	AEROSOLS	150 t	500 t
18	Liquefied flammable	50 t	200 t
	Gases (including LPG) and natural gas		

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

34 Petroleum products and alternative fuels a)	2.500 t	25.000 t
Petrol and naphtha b) Kerosenes (including aviation fuels) c)		
Gas oils (including diesel fuels, light heating oil and gas oil blends) d) Heavy fuel oils e)		
Alternative fuels serving the same purposes and having similar flammability and environmental hazard characteristics to the products referred to in points (a) to (d)		

Water hazard class : WGK 2 clearly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

Take a breath. : 5.2.5: Organic substances: Class
1: Diphenylamine

Volatile organic compounds : Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on emissions from industry and livestock farming (integrated pollution prevention and control)

Volatile organic compound (VOC) content: 73.6%, 441 g/l

Notes: VOC (volatile organic compound) content less water

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II**Other regulations:**

Observe employment restrictions pursuant to Directive 94/33/EC on the protection of young people at work or stricter national provisions, where applicable.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

Other Information : Positions where changes compared to the previous
The changes made in this version are highlighted in the body of the
text by two vertical lines.

Full text of H-statements

H225	: Highly flammable liquid and vapor.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways. be possible.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause allergic skin reactions.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness and dizziness.
H361f	: Suspected of damaging fertility.
H400	: Very toxic to aquatic organisms.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
H413	: May be harmful to aquatic life with long-term Effect.
EUH071	: Corrosive to the respiratory tract.
H317	: May cause allergic skin reactions.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Risk of aspiration
Eye Dam.	: Severe eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Corr.	: Corrosive to skin
Skin Irrit.	: Irritating to the skin
Skin Sens.	: Sensitization by skin contact
STOT SE	: Specific target organ toxicity - single exposure
Skin Sens.	: Sensitization by skin contact

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THE DFG BAT	: Germany. MAK and BAT Annex XIII
DE DFG MAK	: Germany. MAK and BAT Annex IIa
OF TRGS 900	: Germany. TRGS 900 - Workplace exposure limits
TRGS 903	: TRGS 903 - Biological limit values
THE DFG MAKES / MAKES	: MAK value
DE TRGS 900 / AGW	: Workplace exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for Materials Testing; bw - Body weight; CLP - Classification, Labelling and Packaging of Substances Regulation (EC) No 1272/2008; CMR -

Carcinogenic, mutagenic, or reproductive toxicant; DIN - Standard of the German Institute for Standardization; DSL - List of Domestic Substances (Canada); ECHA - European Chemicals Agency; EC Number - European Community Number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Response Plan; ENCS - Existing and new chemical substances (Japan); ErCx - Concentration associated with x% growth rate; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Chemical Substances Existing in China; IMDG - International Maritime Dangerous Goods Code; IMO - International Maritime Organization; ISHL - Occupational Safety and Health Act (Japan); ISO - International Organization for Standardization; KECI - Inventory of Chemicals Existing in Korea; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population (median lethal dose); MARPOL - International Convention for the Prevention of Pollution from Ships; NOS - Not Otherwise Specified; NO(A)EC - No Observable Effect Concentration; NO(A)EL - No Observable Effect Dose; NOELR - No Observable Effect Load; NZIoC - New Zealand Chemicals Inventory; OECD - Organisation for Economic Co-operation and Development; OPPTS -

Office of Chemical Safety and Pollution Prevention (OSCP); PBT - Persistent, Bioaccumulative, and Toxic Substances; PICCS - Inventory of Existing Chemicals and Chemical Substances in the Philippines; (Q)SAR - (Quantitative) Structure-Activity Relationship; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Inventory of Existing Chemical Substances in Taiwan; TECI - Thailand Stockpile of Existing Chemicals; TRGS - Technical Rules for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of the most important data used to create the data sheet was used	: Internal technical data, raw material data from the SDS, search results from the OECD eChem Portal and the European Chemicals Agency, http://echa.europa.eu/
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Classification of the mixture:

Aerosol 1

H222, H229

Classification procedure:

Based on product data or

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		assessment
Skin Irrit. 2	H315	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Based on product data or assessment
Eye Irrit. 2	H319	Calculation method

Positions where changes have been made compared to the previous version are highlighted in the body of the text by two vertical lines.

The information contained in this safety data sheet is correct to the best of our knowledge and belief and is based on the state of knowledge at the time of publication. This information is intended only as a guide for safe handling, use, processing, storage, transport, disposal, and release and does not constitute a warranty or quality specification. This information relates only to the substance identified at the top of this SDS and is not valid when the substance identified in the SDS is used in combination with other substances or in other processes, unless otherwise stated in the text. Users of the substance should review the information and recommendations in the specific case of the intended handling, use, processing, and storage, including, where appropriate, an assessment of the suitability of the substance identified in the SDS in the user's final product.

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