

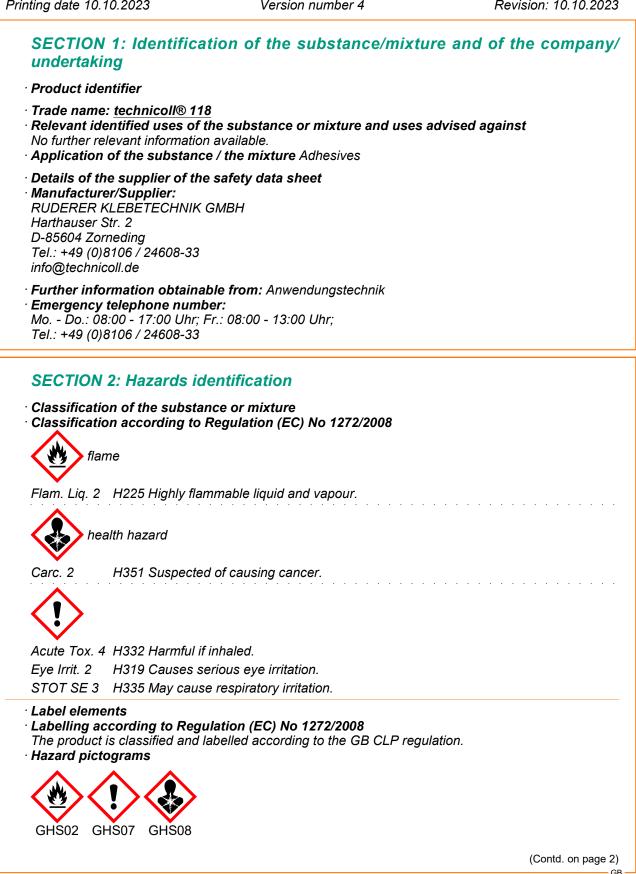
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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.10.2023

Version number 4

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Trade name: technicoll® 118 (Contd. of page 1) · Signal word Danger · Hazard-determining components of labelling: tetrahydrofuran Hazard statements H225 Highly flammable liquid and vapour. H332 Harmful if inhaled. H319 Causes serious eye irritation. H351 Suspected of causing cancer. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 Use explosion-proof [electrical/ventilating/lighting] equipment. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/ international regulations. · Other hazards Results of PBT and vPvB assessment · PBT: Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Dangerous components.			
CAS: 109-99-9	tetrahydrofuran	>70%	
EINECS: 203-726-8	♦ Flam. Liq. 2, H225; ♦ Carc. 2, H351; ♦ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335		
CAS: 128-37-0 EINECS: 204-881-4	Butylated hydroxytoluene	0.1-<0.15%	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; (1) Acute Tox. 4, H302		
• Additional information: For the wording of the listed hazard phrases refer to section 16.			

SECTION 4: First aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Show this safety data sheet to the attending physician.

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Printing date 10.10.2023 Version number 4 Revision: 10.10.2023 Trade name: technicoll® 118 (Contd. of page 2) · After inhalation: Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation. Seek medical treatment. After skin contact: Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. If skin irritation persists, seek medical advice. After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately. Rinse eyes with water for at least 15 minutes. Seek medical attention if eye irritation occurs or persists. · After swallowing: If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting. · Information for doctor: First aiders: Pay attention to self-protection! Most important symptoms and effects, both acute and delayed In all cases of doubt, or when symptoms persist, seek medical advice. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

First Aid, decontamination, treatment of symptoms.

- Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • For safety reasons unsuitable extinguishing agents: Sharp water jet
- Special hazards arising from the substance or mixture Gases/vapours, toxic
- Heating causes rise in pressure with risk of bursting.
- Advice for firefighters Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Ventilate affected area. Do not breathe vapours. Keep away from sources of ignition. Remove
 persons to safety.
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:
 Divide with plants of water.
 - Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

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Long-term value: 150 mg/m³, 50 ppm Sk

128-37-0 Butylated hydroxytoluene (0.1-<0.15%)

WEL Long-term value: 10 mg/m³

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109-99-9 tetrahydrofuran Dermal DNEL (Langzeit-wiederholt) 25 mg/kg bw/day (Workers) Inhalative DNEL (Short Term Acute) 300 mg/m³ (Workers) Additional information: The lists valid during the making were used as basis. Exposure controls Provide good ventilation. This can be achieved with local or room suction. Do not breathe mi vapours/spray. Personal protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use self-contained respiratory protective device. Protection of hands: Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. The glove material has to be impermeable and resistant to the product/ the substance/ t preparation. Due to missing tests no recommendation to the glove material can be given for the product/ t preparation. Due to missing tests no recommendation of the penetration times, rates of diffusion and t degradation Material of gloves	DNELs		(Contd. of page
Dermal DNEL (Langzeit-wiederholt) 25 mg/kg bw/day (Workers) Inhalative DNEL (Langzeit-wiederholt) 150 mg/m² (Workers) Additional information: The lists valid during the making were used as basis. Exposure controls Provide good ventilation. This can be achieved with local or room suction. Do not breathe mi vapours/spray. Bersonal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, bevrages and feed. Immediately remove all solied and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes. Protective clothing separately. Avoid contact with the eyes. Protection of hands: Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. If preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation. Due to missing tests no recommendation of the penetration times, rates of diffusion and tdegradation Material of gloves NBR (nitrile rubber) This glove material > 0.4 mm		totrahydrofuran	
Inhalative DNEL (Short Term Acute) 300 mg/m³ (Workers) DNEL (Langzeit-wiederholt) 150 mg/m³ (Workers) Additional information: The lists valid during the making were used as basis. Exposure controls Provide good ventilation. This can be achieved with local or room suction. Do not breathern vapours/spray. Personal protective equipment: General protective containinated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes. Protection of hands: Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ to preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the selection of the discusse. Stelection of the glove material ≥ 0.4 mm It is recommended to clarify the chemical resistance of the above mentioned protective gloves Stelection of the glove material ≥ 0.4 mm Thickness of the glove material ≥ 0.4 mm This recommended to clarify the chemical resistance of the above mentioned protective gloves special applications with the glove manufacturer. With the glove manufacturer. The instructions and information of the protective glove manufacture regarding use, storage, maintenance and replacement must be observed. Penetration time of the glove material in Depending on the strength and duration of skin exposure. Recommended glove brands: EN ISO 374 The selection of a suitable glove depends not only on the materi		-	25 ma/ka hw/day (Morkers)
DNEL (Langzeit-wiederhoit) 150 mg/m³ (Workers) Additional information: The lists valid during the making were used as basis. Exposure controls Provide good ventilation. This can be achieved with local or room suction. Do not breathe m vapours/spray. Personal protective equipment: General protective equipment: Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or long exposure use self-contained respiratory protective device. Protection of hands: Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability. Impegnation. Due to missing tests no recommendation to the glove material can be given for the product/ the substance/ is preparation. Due to missing tests no recommendation to the glove material can be given for the product/ is proparation.		,	
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The glove material has to be impermeable and resistant to the product/ the substance/ to preparation. Due to missing tests no recommendation to the glove material can be given for the product/ to preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and to degradation Material of gloves NBR (nitrile rubber) Thickness of the glove material ≥ 0.4 mm It is recommended to clarify the chemical resistance of the above mentioned protective gloves special applications with the glove manufacturer. with the glove manufacturer. The instructions and information of the protective glove manufacture regarding use, storage, maintenance and replacement must be observed. Penetration time of the glove material in Depending on the strength and duration of skin exposure. Recommended glove brands: EN ISO 374 The selection of a suitable glove depends not only on the material but also on other quality feature and varies from manufacturer to manufacturer. As the product is a preparation of seve substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.	Provide g vapours/s, Personal General p Keep awa Immediate Wash han Store prot Avoid com Avoid com Avoid com Respirato In case of exposure Protection Use glove	ood ventilation. This can be bray. protective equipment: protective and hygienic mea y from foodstuffs, beverages by remove all soiled and cont ds before breaks and at the e ective clothing separately. tact with the eyes. tact with the eyes and skin. ry protection: brief exposure or low pollution use self-contained respiratory n of hands: s of stable material (e.g. Nitri	asures: and feed. aminated clothing end of work. on use respiratory filter device. In case of intensive or long y protective device.
NBR (nitrile rubber) Thickness of the glove material ≥ 0.4 mm t is recommended to clarify the chemical resistance of the above mentioned protective gloves special applications with the glove manufacturer. with the glove manufacturer. The instructions and information of the protective glove manufacture regarding use, storage, maintenance and replacement must be observed. Penetration time of the glove material in Depending on the strength and duration of skin exposure. Recommended glove brands: EN ISO 374 The selection of a suitable glove depends not only on the material but also on other quality feature and varies from manufacturer to manufacturer. As the product is a preparation of seve substances, the resistance of glove materials cannot be calculated in advance and must therefore the checked before use.	preparatio Due to mi preparatio Selection degradatio	n. ssing tests no recommenda n/ the chemical mixture. of the glove material on cons on	tion to the glove material can be given for the product/ t
	NBR (nitrii Thickness It is recon special ap with the g regarding use, stora material in Depending Recomme	e rubber) of the glove material ≥ 0.4 m mended to clarify the chem plications with the glove man love manufacturer. The instru- age, maintenance and repla g on the strength and duration nded glove brands: EN ISO 3 tion of a suitable glove deper s from manufacturer to m	ical resistance of the above mentioned protective gloves ufacturer. uctions and information of the protective glove manufactur acement must be observed. Penetration time of the glo n of skin exposure. 374 nds not only on the material but also on other quality featur anufacturer. As the product is a preparation of seve
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(Contd. of page 5) The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Eye glasses with side protection: EN 166



Tightly sealed goggles

Body protection:

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

Limitation and supervision of exposure into the environment Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

 Information on basic physical and che General Information 	emical properties
 Appearance: Form: Colour: Odour: Odour threshold: 	Liquid Colourless Ether-like Not determined.
· pH-value at 20 °C:	7-8
 Change in condition Melting point/freezing point: Initial boiling point and boiling rang 	-108.5 °C Ie: 66 °C
· Flash point:	-17 °C
· Flammability (solid, gas):	Highly flammable.
· Auto-ignition temperature:	230 °C
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
 Explosion limits: Lower: Upper: 	1.5 Vol % 12 Vol %
 Vapour pressure at 20 °C: Vapour pressure at 50 °C: 	200 hPa 550 hPa
 Density at 20 °C: Relative density Vapour density Evaporation rate 	0.89 g/cm ³ Not determined. Not determined. Not determined.
	(Contd. on page



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Fully missible
Fully miscible.
Not determined.
Not applicable.
20 mm²/s
70-99.9 %
100.00 %
No further relevant information available.

SECTION 10: Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

• Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products:

Hazardous decomposition byproducts may form with exposure to high temperatures e.g.: Carbon dioxide (CO2), Carbon monoxide, smoke.

Information Acute tox Harmful if	icity	cological effects
LD/LC50	values rel	evant for classification:
109-99-9 1	tetrahydro	furan
Oral	LD50	1,650 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>14.7 mg/l (rat)
128-37-0	Butylated	hydroxytoluene
Oral	LD50	890 mg/kg (rat)



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· Serious eye damage/irritation

Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · Overall assessment on CMR properties
- Based on available data, the classification criteria are not met.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

- · Carcinogenicity
- Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause drowsiness and dizziness. May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential Partition coefficient n-octanol/water = 6.2
- Mobility in soil No further relevant 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.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB:

The substances in the mixture do not fulfil the PBT/vPvB criteria according to UK REACH, Annex XIII.

· Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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UN-Number ADR, IMDG, IATA	UN2056
UN proper shipping name ADR IMDG, IATA	2056 TETRAHYDROFURAN TETRAHYDROFURAN
Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	3 Flammable liquids. 3
Packing group	
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B
<i>Transport in bulk according to Annex II of Marpol and the IBC Code</i>	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
	1L Code: E2 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 500 r
Transport category Tunnel restriction code	2 D/E
<i>IMDG Limited quantities (LQ) Excepted quantities (EQ)</i>	1L Code: E2 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 500 r
UN "Model Regulation":	UN 2056 TETRAHYDROFURAN, 3, II

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SECTION 15: Regulatory information

- · 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 GB CLP regulation.

· Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labelling: tetrahydrofuran
- Hazard statements
- H225 Highly flammable liquid and vapour.
- H332 Harmful if inhaled. H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smokina. P241

Use explosion-proof [electrical/ventilating/lighting] equipment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.

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 P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- National regulations: Observe in addition any national regulations!
- · 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

H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H319 Causes serious eye irritation. H332 Harmful if inhaled.



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Printing date 10.10.2023 Version number 4 Revision: 10.10.2023 Trade name: technicoll® 118 (Contd. of page 10) H335 May cause respiratory irritation. H351 Suspected of causing cancer. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. · Department issuing SDS: Anwendungstechnik Contact: Beratung technicoll Tel.: +49 (0)8106 / 24608-33 Mail: Beratung@technicoll.de 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) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity - Category 4 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 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 Sources The preparation of the safety data sheet is based on the information provided by our raw material suppliers.

GB