

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017



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

- **1.1 Product identifier**
- **Trade name:** technicoll® 9901
- **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** Solvent Cleaner
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
RUDERER KLEBETECHNIK GMBH
Harthausen Str. 2
D-85604 Zorneding
Tel.: +49 (0)8106/2421-0; info@technicoll.de
- **Further information obtainable from:**
Tel.: +49 (0)8106/2421-17
- **1.4 Emergency telephone number:** Giftinformationzentrum (GIZ) Nord, Tel.: +49 (0)551/19240

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
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 labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex I, 1.3.3).
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS02 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics
Propan-2-ol
Hydrocarbons, C6, isoalkanes, <5% n-hexane
Acetone
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 1)

- P251 Do not pierce or burn, even after use.
 P260 Do not breathe vapours/spray.
 P211 Do not spray on an open flame or other ignition source.
 P280 Wear protective gloves / eye protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents / container as special waste.

2.3 Other hazards

Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	Propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412	16-<25%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	15-25%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-<15%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics. Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-<10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas L, H280	2.5-<10%
EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	0.25-<2.5%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	0.25-≤1%
CAS: 110-54-3 EINECS: 203-777-6	n-hexane Flam. Liq. 2, H225; Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	0.25-≤1%

Regulation (EC) No 648/2004 on detergents / Labelling for contents

aliphatic hydrocarbons	≥ 30%
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(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 2)

Additional information:

EC-Numbers beginning with "9" are numbers given by ECHA for the purpose of registration according REACH. Eventually mentioned CAS-numbers valid for countries which are not subject to the REACH regulation or in regulations not yet updated with the new naming convention for hydrocarbon solvents. 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:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash with water and soap

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

If product is swallowed DO NOT induce vomiting. DANGER OF ASPIRATION. Search for medical help and show this MSDS.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, the material can be aspirated into the lungs and cause chemical pneumonia.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture Risk of bursting in case of fire heat

5.3 Advice for firefighters

Protective equipment: Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin / eyes and inhalation.

Keep sources of ignition (flames, sparks, etc.) away. Do not use engines near by (potential source of ignition)

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 3)

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility: Store away from oxidising agents.**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Recommended storage temperature: 15 - 35 °C, max. 50 °C**7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****67-63-0 Propan-2-ol**

WEL (Great Britain)

Short-term value: 1250 mg/m³, 500 ppmLong-term value: 999 mg/m³, 400 ppm**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics**

RCP-TWA (Great Britain)

Long-term value: 1200 mg/m³

Source: ExxonMobil

67-64-1 Acetone

WEL (Great Britain)

Short-term value: 3620 mg/m³, 1500 ppmLong-term value: 1210 mg/m³, 500 ppm

IOELV (EU)

Long-term value: 1210 mg/m³, 500 ppm**Hydrocarbons, C6, isoalkanes, <5% n-hexane**

RCP-TWA (Great Britain)

Long-term value: 1400 mg/m³**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.**

RCP-TWA (Great Britain)

Long-term value: 1400 mg/m³**124-38-9 carbon dioxide**

WEL (Great Britain)

Short-term value: 27400 mg/m³, 15000 ppmLong-term value: 9150 mg/m³, 5000 ppm

IOELV (EU)

Long-term value: 9000 mg/m³, 5000 ppm**Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

RCP-TWA (Great Britain)

Long-term value: 1400 mg/m³**110-82-7 cyclohexane**

WEL (Great Britain)

Short-term value: 1050 mg/m³, 300 ppmLong-term value: 350 mg/m³, 100 ppm

IOELV (EU)

Long-term value: 700 mg/m³, 200 ppm**110-54-3 n-hexane**

WEL (Great Britain)

Long-term value: 72 mg/m³, 20 ppm

IOELV (EU)

Long-term value: 72 mg/m³, 20 ppm

(Contd. on page 5)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 4)

· DNELs		
67-63-0 Propan-2-ol		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	26 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	319 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	888 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	89 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	500 mg /m3 (.)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	300 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	300 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	300 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	900 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	1500 mg /m3 (.)
67-64-1 Acetone		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	62 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	62 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	186 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	200 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	1210 mg /m3 (.)
Hydrocarbons, C6, isoalkanes, <5% n-hexane		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	1301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	1377 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	13964 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	1137 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	5306 mg /m3 (.)
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	149 mg/kg BW/ day (hum)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	149 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	300 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	477 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	2085 mg /m3 (.)
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	1301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	1377 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	13964 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	1131 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	5306 mg /m3 (.)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: **technicoll® 9901**

(Contd. of page 5)

- **Protection of hands:**
- **Material of gloves** Butyl rubber, BR
- **Penetration time of glove material** > 120 min / 0,7 mm
- **Eye protection:** Safety glasses in case of spittings

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Aerosol
Colour:	Colourless
Odour:	Recognisable
Odour threshold:	Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	60 °C Initial boiling point of the solvent

· **Flash point:** -22 °C
concerns to propellant

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 240 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Risk of bursting at temperatures > 50 °C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.

· Explosion limits:

Lower:	0.6 Vol %
Upper:	13.0 Vol %
Pressure (20 °C)	5 - 8 bar

· **Density at 20 °C:** ca. 0.808 g/cm³

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not applicable.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol/water:** Not determined.

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	93.8 %
VOC (EC)	93.80 %

· **9.2 Other information** No further relevant information available.

· **Additional information** Vapors are heavier than air.

GB

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 6)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50 °C.
- **10.3 Possibility of hazardous reactions**
By use or incidental release the formation of explosive vapor/air mixtures is possible.
- **10.4 Conditions to avoid** Avoid the use in the near of ignition sources.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** Stable for a storage time of min. 24 months

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

67-63-0 Propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rab)

67-64-1 Acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

110-82-7 cyclohexane

Oral	LD50	12705 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
irritant
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

LC 50 / 96 h	>100 mg / l (fis)
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(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 7)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms
 Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
 empty cans: material recycling
 filled cans: remove in accordance with local regulations
 Hand over to hazardous waste disposers.


- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 2 5F Gases.
- **Label** 2.1

(Contd. on page 9)

GB

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

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 8)

· **IMDG, IATA**

· Class	2.1
· Label	2.1

· 14.4 Packing group	
· ADR, IMDG, IATA	Void

· 14.5 Environmental hazards:	
· Marine pollutant:	Yes

· 14.6 Special precautions for user	Warning: Gases.
· Danger code (Kemler):	-
· EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· Segregation Code	

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
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· **Transport/Additional information:**

· ADR	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· Remarks:	Transportation as "LIMITED QUANTITIES" according 3.4 ADR is possible. Sole marking: Sign for "Limited Quantities" (rhombus with two black edges) Entry in the transportation document: Transportation according chapter 3.4 ADR Tunnel category "E" in case of a load of 8000 kg (rgross weight) or more.

· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
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GB

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: **technicoll® 9901**

(Contd. of page 9)

SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P3b** FLAMMABLE AEROSOLS
- **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:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	0.5
NK	85.9

- **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

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361f Suspected of damaging fertility.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

- ADR: Accord européen sur le transport 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 (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Aerosol 1: Aerosols – Category 1
- Press. Gas L: Gases under pressure – Liquefied gas
- Flam. Liq. 2: Flammable liquids – Category 2
- Flam. Liq. 3: Flammable liquids – Category 3
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Asp. Tox. 1: Aspiration hazard – Category 1

(Contd. on page 11)

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

Printing date 04.04.2017

Revision: 04.04.2017

Trade name: technicoll® 9901

(Contd. of page 10)

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
· *** Data compared to the previous version altered.**

GB