



wfk Testgewebe GmbH

41379 Brüggen-Bracht

Date printed 16.04.2014, Revision 16.04.2014

Version 02. Supersedes version: 01

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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

Rinse aid Type B (formula II)

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

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 Christenfeld 10
 41379 Brüggen-Bracht / GERMANY
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 Fax +49-2157-90657
 Homepage www.testgewebe.de
 E-mail info@testgewebe.de

Address enquiries to

Technical information

info@testgewebe.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Company

+49-2157-871977 Mo-Fr 8:00-17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 3: H226 Flammable liquid and vapour.
 Eye Irrit. 2: H319 Causes serious eye irritation.
 Skin Irrit. 2: H315 Causes skin irritation.
 Aquatic Acute 1: H400 Very toxic to aquatic life.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Flammable - R 10: Flammable.
 Xi, Irritant - R 36: Irritating to eyes.
 N, Dangerous for the environment - R 50: Very toxic to aquatic organisms.

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

WARNING

Hazard statements

H226 Flammable liquid and vapour.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H400 Very toxic to aquatic life.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face 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.
 P337+P313 If eye irritation persists: Get medical advice/attention.

Cleaner, 648/2004/CE, contains:

>=30% non-ionic surfactants



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2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
20 - <30	Citric Acid, liquid CAS: 77-92-9, EINECS/ELINCS: 201-069-1 GHS/CLP: Eye Irrit. 2: H319 EEC: Xi, R 36
10 - <20	Alkohol, C12-15, ethoxyliert, propoxyliert CAS: 68551-13-3, EINECS/ELINCS: Polymer GHS/CLP: Skin Irrit. 2: H315 - Aquatic Acute 1: H400 EEC: Xi-N, R 38-50
1 - <20	Fatty alcohol alkoxyliated 8 EINECS/ELINCS: Polymer GHS/CLP: Aquatic Acute 1: H400 EEC: N, R 50
1 - <15	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-xxxx GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 EEC: F-Xi, R 11-36-67

Comment on component parts
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation
Ensure supply of fresh air.
In the event of symptoms seek for medical treatment.
Skin contact
When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.
Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.
If swallowed or in the event of vomiting, risk of product entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
Alcohol-resistant foam.
Water spray jet.
Dry powder.
Extinguishing media that must not be used

Full water jet.



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5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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

Keep away from all sources of ignition.

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

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

Use only in well-ventilated areas.

Avoid spilling or spraying in enclosed areas.

Use solvent-resistant equipment.

Keep away from open flames, hot surfaces and sources of ignition.

Take precautionary measures against static discharges.

Ground/bond container and receiving equipment.

Use explosion-proofed equipment/fittings and non-sparking tools.

Vapours can form an explosive mixture with air.

Ignitable mixtures can be formed in the empty container.

Do not eat, drink, smoke or take drugs at work.

Use barrier skin cream.

Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Only use containers that are approved specifically for the substance/product.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep container tightly closed.

Protect from heat/overheating and from sun.

Storage class 3 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
1 - <15	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-xxxx
	Long-term exposure: 400 ppm, 999 mg/m ³
	Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: butyl rubber, > 120 min (EN 374)
Skin protection	Solvent-resistant protective clothing.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter A.
Thermal hazards	See SECTION 7.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	clear
Odor	alcoholic
Odour threshold	not determined
pH-value	3
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	35
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,08
Bulk density [kg/m³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	ca. 160 mPas (20°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined



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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Formation of explosive gas/air mixtures.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

Use solvent-resistant equipment.

10.6 Hazardous decomposition products

Flammable gases/vapours.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
1 - <15	Propan-2-ol, CAS: 67-63-0
	LD50, dermal, Rabbit: 12800-13400 mg/kg.
	LD50, oral, Rat: 5280 mg/kg.
	LC50, inhalative, Rat: 47,5 mg/l (8h).
20 - <30	Citric Acid, liquid, CAS: 77-92-9
	LD50, oral, Rat: 6730 mg/kg (Lit.).
10 - <20	Alkohol, C12-15, ethoxyliert, propoxyliert, CAS: 68551-13-3
	LD50, oral, Rat: > 2000 mg/kg.
1 - <20	Fatty alcohol alkoxylated 8, CAS: 68551-13-3
	LD50, oral, Rat: > 2000 mg/kg.

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data of complete product are not available.

The product was classified on the basis of the calculation procedure of the preparation directive.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
1 - <15	Propan-2-ol, CAS: 67-63-0
	LC50, (96h), Pimephales promelas: 9640 mg/l.
	EC50, (48h), Daphnia magna: 13299 mg/l.
	IC50, (72h), Desmodemus subspicatus: > 1000 mg/l.
20 - <30	Citric Acid, liquid, CAS: 77-92-9
	(16h), Pseudomonas putida: IC5: > 10000 mg/l (Lit.).
	Scenedesmus quadricauda (alga): IC5: 640 mg/l/7d (Lit.).
	LC50, (96h), Leuciscus idus: 440-760 mg/l (IUCLID).
	EC50, (72h), Daphnia magna: ca. 120 mg/l (IUCLID).
10 - <20	Alkohol, C12-15, ethoxyliert, propoxyliert, CAS: 68551-13-3
	LC50, (96h), Danio rerio: 0,1 - 1 mg/l.
	EC50, (72h), Algae: 0,1 - 1 mg/l.
	EC50, (48h), Daphnia magna: 1 - 10 mg/l.
1 - <20	Fatty alcohol alkoxylated 8, CAS: 68551-13-3
	LC50, (96h), Leuciscus idus: 0,1 - 1 mg/l.
	EC50, (48h), Daphnia magna: 0,1 - 1 mg/l.
	IC50, (72h), Algae: 0,1 - 1 mg/l.
	EC10, Pseudomonas putida: > 10000 mg/l/0,5h.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	The product can cause foaming in sewage treatment plants.
Biological degradability	The product is readily biodegradable according to OECD criteria.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.

Waste no. (recommended)

070601*
200129*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 1993 Flammable liquid, n.o.s. (Isopropanol, Alcohols,ethoxylated) (ENVIRONMENTALLY HAZARDOUS) 3 III

- Classification Code

F1

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

UN 1993 Flammable liquid, n.o.s. (Isopropanol, Alcohols,ethoxylated) (ENVIRONMENTALLY HAZARDOUS) 3 III

- Classification Code

F1

- Label



Marine transport in accordance with IMDG

UN 1993 Flammable liquid, n.o.s. (Isopropanol, Alcohols,ethoxylated) 3 III MARINE POLLUTANT

- EMS

F-E, S-E

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA UN 1993 Flammable liquid, n.o.s. (Isopropanol, Alcohols,ethoxylated, solution) 3 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name



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14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (1999/13/CE)	ca. 12%

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information**16.1 R-phrases (SECTION 3)**

R 36: Irritating to eyes.
 R 50: Very toxic to aquatic organisms.
 R 38: Irritating to skin.
 R 11: Highly flammable.
 R 67: Vapours may cause drowsiness and dizziness.

16.2 Hazard statements (SECTION 3)

H336 May cause drowsiness or dizziness.
 H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H400 Very toxic to aquatic life.
 H319 Causes serious eye irritation.



16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.4 Other information

Customs Tariff

not determined

Classification procedure

Flam. Liq. 3: H226 Flammable liquid and vapour. (Calculation method)

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)

Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)

Modified position

none



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