

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

eueryl® K 940 **No Change Service!**

Version
01.01

Revision Date:
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Date of last issue: 22.01.2016
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P310

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

100-51-6 Benzyl alcohol
70445-33-9 3-(2-ethylhexyloxy)propane-1,2-diol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : solution

Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Benzyl alcohol	603-057-00-5 100-51-6 202-859-9 01-2119492630-38-XXXX	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	36 - 44
2-Phenoxyethanol	603-098-00-9 122-99-6 204-589-7 01-2119488943-21-XXXX	Acute Tox. 4; H302 Eye Irrit. 2; H319	36 - 44
3-(2-ethylhexyloxy)propane-1,2-diol	603-168-00-9 70445-33-9 408-080-2 01-0000015745-65-0001	Eye Dam. 1; H318 Acute Tox. 4; H332 Aquatic Chronic 3; H412	18 - 22

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.
If inhaled : If symptoms persist, call a physician.
In case of skin contact : Wash off immediately with plenty of water.
In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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If swallowed : Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.,
Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water, Dry powder, Foam, Carbon dioxide (CO₂)

Unsuitable extinguishing media : No information available.

5.2 Special hazards arising from the substance or mixture

Specific risk from the substance or the product itself, its combustion products or evolved gases : Decomposition products, see chapter 10

5.3 Advice for firefighters

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

see Section 8 + 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle and open container with care.
Advice on protection against fire and explosion : No special protective measures against fire required.
Hygiene measures : Take off all contaminated clothing immediately.

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7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container.
- Further information on storage conditions : Protect from frost, heat and direct sunlight. Limited stability - see label on pack. Keep container tightly closed.
- Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Phenoxyethanol	122-99-6	Permissible exposure limit	20 ppm 110 mg/m ³	TRGS 900
		Ceiling Limit Value	40 ppm 220 mg/m ³	TRGS 900

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Phenoxyethanol	Consumers	Ingestion	Acute systemic effects	25 mg/kg
	Consumers	Ingestion	Long-term systemic effects	5 mg/kg
	Workers	Inhalation	Acute systemic effects	450 mg/m ³
	Workers	Inhalation	Long-term systemic effects	90 mg/m ³
	Consumers	Inhalation	Acute systemic effects	95,5 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	19,1 mg/m ³
	Workers	Skin contact	Acute systemic effects	47 mg/cm ²
	Workers	Skin contact	Long-term systemic effects	9,5 mg/cm ²
	Consumers	Skin contact	Acute systemic effects	28,5 mg/cm ²
	Consumers	Skin contact	Long-term systemic effects	5,7 mg/cm ²
	Workers	Inhalation	Long-term systemic effects, Long-term local effects	8,07 mg/m ³

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	Workers	Skin contact	Long-term systemic effects	34,72 mg/kg
	Consumers	Inhalation	Long-term exposure, Short-term exposure, Local effects	2,5 mg/m ³
	Consumers	Skin contact	Long-term local effects	20,83 mg/kg
	Consumers	Ingestion	Short-term exposure, Long-term exposure, Systemic effects	17,43 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Benzyl alcohol	Soil	0,456 mg/kg
	Sewage treatment plant	39 mg/l
	Sediment	5,27 mg/kg
	Marine sediment	0,527 mg/kg
	Marine water	0,1 mg/l
	Intermittent use/release	2,3 mg/l
	Fresh water	1 mg/l
2-Phenoxyethanol	Fresh water	0,943 mg/l
	Marine water	0,0943 mg/l
	Fresh water sediment	7,2366 mg/kg
	Marine sediment	0,7237 mg/kg
	Soil	1,26 mg/kg
	Intermittent use/release	3,44 mg/l
	Sewage treatment plant	24,8 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection : Impervious gloves
Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0,11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Protective measures : Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

Appearance	: Liquid
Colour	: colourless, -, light yellow
Odour	: characteristic
Odour Threshold	: not determined
Boiling point/boiling range	: > 100 °C
Flash point	: > 100 °C, ISO 2719
Evaporation rate	: not determined
Flammability (solid, gas)	: not auto-flammable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: not determined
Relative vapour density	: not determined
Density	: 1,044 - 1,056 g/cm ³ , 20 °C
Solubility(ies)	
Water solubility	: 7,5 g/l , 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Viscosity	
Viscosity, dynamic	: not determined
Flow time	: < 15 s at 20 °C, DIN 53211
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension	: not determined
Refractive index	: 1,515 - 1,527 at 20 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

None reasonably foreseeable.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

No data available,

10.6 Hazardous decomposition products

None reasonably foreseeable.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

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Acute oral toxicity : LD50 (Rat): 1620 mg/kg
 Acute inhalation toxicity : LC50 (Rat): 4,2 mg/l, 4 h, dust/mist, OECD Test Guideline 403

2-Phenoxyethanol:

Acute oral toxicity : LD50 (Rat): 1850 mg/kg, Harmful if swallowed.
 Acute inhalation toxicity : (Rat): 8 h, An LC50/ inhalation could not be determined because no mortality of rats was observed at the maximum achievable concentration.
 Acute dermal toxicity : LD50: > 2000 mg/kg, Based on available data, the classification criteria are not met.

3-(2-ethylhexyloxy)propane-1,2-diol:

Acute oral toxicity : LD50 (Rat): > 2000 mg/kg, OECD Test Guideline 401, Based on available data, the classification criteria are not met.
 Acute inhalation toxicity : LC50 (Rat): 3,07 mg/l, OECD Test Guideline 403, Harmful if inhaled.
 Acute dermal toxicity : LD50 (Rat): > 2000 mg/kg, OECD Test Guideline 402, Based on available data, the classification criteria are not met.

Skin corrosion/irritation**Components:****Benzyl alcohol:**

Rabbit, OECD Test Guideline 404, No skin irritation

2-Phenoxyethanol:

Rabbit, OECD Test Guideline 404, No skin irritation

3-(2-ethylhexyloxy)propane-1,2-diol:

OECD Test Guideline 404, Mildly irritant - does not need to be labelled

Serious eye damage/eye irritation**Components:****Benzyl alcohol:**

Rabbit, OECD Test Guideline 405, Moderate eye irritation

2-Phenoxyethanol:

Rabbit, Causes serious eye irritation., OECD Test Guideline 405

3-(2-ethylhexyloxy)propane-1,2-diol:

OECD Test Guideline 405, Risk of serious damage to eyes., concentrate

Respiratory or skin sensitisation**Components:****Benzyl alcohol:**

Does not cause skin sensitisation. Guinea pig

2-Phenoxyethanol:

Did not cause sensitisation on laboratory animals. Maximisation Test, Guinea pig, OECD Test Guideline 406

3-(2-ethylhexyloxy)propane-1,2-diol:

Did not cause sensitisation on laboratory animals. OECD Test Guideline 406

Germ cell mutagenicity**Components:****Benzyl alcohol:**

Genotoxicity in vivo : in vivo assay, OECD 474, Micronucleus test: not mutagenic

2-Phenoxyethanol:

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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3-(2-ethylhexyloxy)propane-1,2-diol:

Genotoxicity in vitro : OECD Test Guideline 471, Not mutagenic in Ames Test
Genotoxicity in vivo : OECD 474, Micronucleus test: not mutagenic

Carcinogenicity

Components:

2-Phenoxyethanol:

Carcinogenicity - Assessment : No data available

Reproductive toxicity

Components:

2-Phenoxyethanol:

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

3-(2-ethylhexyloxy)propane-1,2-diol:

Effects on foetal development : Rat, Oral, NOAEL: 800 mg/kg, OECD Test Guideline 414, Based on available data, the classification criteria are not met.

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

Benzyl alcohol:

Rat, NOAEL: 400 mg/kg, Oral

2-Phenoxyethanol:

Rat, NOAEL: 400 mg/kg, Oral, Based on available data, the classification criteria are not met.

3-(2-ethylhexyloxy)propane-1,2-diol:

Rat, NOAEL: 100 mg/kg, Oral, 28-days, OECD Test Guideline 407, Based on available data, the classification criteria are not met.

Rat, NOAEL: 50 mg/kg, Oral, 90-days

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Benzyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l, 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l, 48 h, OECD Test Guideline 202

Toxicity to algae : IC50 (Pseudokirchneriella subcapitata (microalgae)): 700 mg/l, 72 h, OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l, 21 d, Daphnia magna (Water flea)

Toxicity to bacteria : IC50 (Bacteria): 390 mg/l, 24 h

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Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l, 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 : > 500 mg/l, 48 h
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l, 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 23 mg/l , 34 d, Pimephales promelas (fathead minnow)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 9,43 mg/l , 21 d, Daphnia magna (Water flea)

3-(2-ethylhexyloxy)propane-1,2-diol:

Toxicity to fish	: LC50 (Brachidanio rerio): 60,2 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna): 78,3 mg/l, 48 h
Toxicity to algae	: IC50 (Desmodesmus subspicatus (green algae)): 48,3 mg/l, 72 h
Toxicity to fish (Chronic toxicity)	: NOEC: 1,5 mg/l , 35 d, Brachidanio rerio, OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 20 mg/l , 21 d, Daphnia magna (Water flea), OECD Test Guideline 211
Toxicity to bacteria	: EC50 : 560 mg/l , OECD 209

12.2 Persistence and degradability**Components:****Benzyl alcohol:**

Biodegradability : Biodegradation: 95 %, Exposure time: 21 d, OECD Test Guideline 301A

2-Phenoxyethanol:

Biodegradability : Biodegradation: 90 - 100 %, Exposure time: 15 d, OECD Test Guideline 301A, According to the results of tests of biodegradability this product is considered as being readily biodegradable.

3-(2-ethylhexyloxy)propane-1,2-diol:

Biodegradability : According to OECD criteria, the product is inherently biodegradable., OECD 302B/ ISO 9888/ EEC 88/302C

12.3 Bioaccumulative potential**Components:****Benzyl alcohol:**

Partition coefficient: n-octanol/water : log Pow: 1,05

2-Phenoxyethanol:

Bioaccumulation : Bioconcentration factor (BCF): 0,35, No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 1,16

3-(2-ethylhexyloxy)propane-1,2-diol:

Partition coefficient: n-octanol/water : log Pow: 2,53

12.4 Mobility in soil**Product:**

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Mobility : No data available

Components:

||| 2-Phenoxyethanol:

||| Mobility : Mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Adsorbed organic bound halogens (AOX) : Product does not contain any organic halogens.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of as special waste in compliance with local and national regulations. Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste key for the unused product(Group) : The waste producer itself must, in consultation with the appropriate authorities and a waste disposal company, obtain a waste code from the EWC (European Waste Catalogue)

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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Legislation on the control of major-accident hazards involving dangerous substances : Directive 96/82/EC does not apply

Volatile organic compounds : Directive 2010/75/EC on the limitation of emissions of volatile organic compounds, none

15.2 Chemical safety assessment

Exempt

SECTION 16: Other information**Full text of H-Statements**

H302 : Harmful if swallowed.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (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 Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; 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 maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evalua-

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tion, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

|| Changes compared with the previous edition!!!

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.