

Safety Data Sheet

according to UK REACH Regulation

MultiEx GC

Revision date: 19.10.2020

Product code: 090612-RM

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

1.1. Product identifier

MultiEx GC

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

Use of the substance/mixture

Electronics cleaner for spray and immersion plants
Professional cleaners for industrial use

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|-------------------------------|---------------------------|
| Company name: | kolb Cleaning Technology GmbH | |
| Street: | Karl-Arnold-Str. 12 | |
| Place: | D-47877 Willich | |
| Telephone: | +49-2154-947938 | Telefax: +49-2154-947947 |
| e-mail: | info@kolb-ct.com | |
| Contact person: | Herr Linker | Telephone: +49-2324-97980 |
| e-mail: | christian.linker@kolb-ct.com | |
| Internet: | www.kolb-ct.com | |
| Responsible Department: | Labor/ QS | |

1.4. Emergency telephone number:

+49/ (0) 23 24/ 979817 (EU)
+61 4 19 809 805 (Australia)
+1 970 443 9233 (USA)
Schweiz: 145

Further Information

| | |
|-------------------------------------|---------------------------|
| Australia: | USA: |
| kolb Cleaning Technology AP PTY LTD | kolb USA LLC |
| 6/150 Canterbury Road | 410 Sunset, Unit C |
| NSW 2200 Bankstown | 80501 Longmont – CO |
| Phone: +61 2 97900273 | Phone 001- 970-532-5100 |
| Mobile +61 4 19 809 805 | Mobile: 001- 970-443-9233 |

SECTION 2: Hazards identification

2.2. Label elements

Hazard components for labelling

This mixture does not contain any substances which either present a health or environmental hazard according to directive 67/548/EEC or have an occupational exposure limit assigned. The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Additional advice on labelling

UFI: P4D0-J03A-200S-3NAT

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Nutrale SMD adhesive cleaner for the electronics industry on the basis of (EG 648/2004 VO detergents):
Alkylpropylenglykolen, Korrosionsinhibitoren, Schaumregulatoren (silikonfrei), pH-Regulatoren.

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|--------------------------------------------------|----------|------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem | | | 90-100 % |
| | 252-104-2 | | 01-2119450011-60 | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|-----------------------------------------------------|--------------------------------------------------|----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 34590-94-8 | 252-104-2 | Dipropylene glycol monomethyl ether, Isomerengem | 90-100 % |
| | dermal: LD50 = 19020 mg/kg; oral: LD50 = 5130 mg/kg | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2. Most important symptoms and effects, both acute and delayed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Medical examination necessary even merely on suspicion of intoxication.

4.3. Indication of any immediate medical attention and special treatment needed

Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder, Foam, Extinguishing powder, alcohol resistant foam, ABC-powder

Unsuitable extinguishing media

Water spray jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Special danger of slipping by leaking/spilling product.

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6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Other information

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Remove contaminated, saturated clothing immediately.

Advice on protection against fire and explosion

not applicable

Further information on handling

not applicable

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special handling advices are necessary.

Further information on storage conditions

No storage class

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|----------------------------------|-----|-------------------|-----------|-----------|--------|
| 34590-94-8 | (2-methoxymethylethoxy) propanol | 50 | 308 | | TWA (8 h) | WEL |

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: protective glasses

Hand protection

Tested protective gloves must be worn

Environmental exposure controls

non

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid:
 Colour: transparent
 Odour: neutral

Test method

Changes in the physical state

Boiling point or initial boiling point and boiling range: 180 °C

Flash point: No flash point according to standard method.

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Explosive properties

The study does not need to be conducted because the flash-point can be accurately predicted by interpolation from existing characterised materials. *

| | |
|------------------------------------|----------------------|
| Lower explosion limits: | 1,1 vol. % |
| Upper explosion limits: | 14 vol. % |
| pH-Value: | not measurable |
| Viscosity / dynamic: (at 20 °C) | 23,0 mPa·s DIN 51376 |
| Water solubility: | completely miscible |

Solubility in other solvents

Alcohol, Glycol

| | |
|--------------------------------|-------------------------|
| Vapour pressure: (at 20 °C) | 0,0097 hPa |
| Density (at 20 °C): | 0,953 g/cm ³ |

9.2. Other information

Information with regard to physical hazard classes

Oxidizing properties
keine

Other safety characteristics

Solvent content: 100 %

Further Information

not subject to the requirements of § 4 of the Hazardous Substances Ordinance (GefStoffV)

SECTION 10: Stability and reactivity

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.6. Hazardous decomposition products

not known

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | | |
|------------|--------------------------------------------------|---------------|---------|--------|--------|--|
| | Exposure route | Dose | Species | Source | Method | |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem | | | | | |
| | oral | LD50 mg/kg | 5130 | Ratte | AMA | |
| | dermal | LD50 mg/kg | 19020 | Ratte | | |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

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Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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

12.1. Toxicity

Daphnia magna: > 10000 mg/ltr

| CAS No | Chemical name | | | | | |
|------------|--------------------------------------------------|---------------|-----------|---------|--------------------------------------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem | | | | | |
| | Acute fish toxicity | LC50 mg/l | >10000 | 96 h | Pimephales promelas (Amerikan. Elritze) | |
| | Acute algae toxicity | ErC50 mg/l | >969 | 96 h | Alge | |
| | Acute crustacea toxicity | EC50 mg/l | 1919 | 48 h | Daphnia magna (Wasserfloh) | |
| | Crustacea toxicity | NOEC | 12 mg/l | | Daphnia magna (Wasserfloh) | |

12.2. Persistence and degradability

| CAS No | Chemical name | | | | |
|------------|--------------------------------------------------|-------|----|--------|--|
| | Method | Value | d | Source | |
| | Evaluation | | | | |
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem | | | | |
| | OECD 301E | >70% | 28 | | |
| | biologisch abbaubar | | | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--------------------------------------------------|---------|
| 34590-94-8 | Dipropylene glycol monomethyl ether, Isomerengem | -0,6 |

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

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List of Wastes Code - residues/unused products

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors; hazardous waste

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information

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

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

SECTION 16: Other information

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)