



according to Regulation (EC) No 1907/2006 (2020/878)

MultiEx A12
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Revision date: 05.01.2024

Product code: 090607-RM

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

# 1.1. Product identifier

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UFI:

WKT2-E0T8-900S-JQJH

## 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

#### 1.3. Details of the supplier of the safety data sheet

1.3. Details of the supplier of the	Salety uata 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:	Christian 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	+49/ (0) 23 24/ 979817 (EU)	
number:	+61 4 19 809 805 (Australia)	
	+1 970 443 9233 (USA)	
	Schweiz: 145	
Further Information		
Australia:	USA:	

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**

## 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

# 2.2. Label elements

# 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

## **Chemical characterization**

Cleaner for the electronics industry on the basis of (EG 648/2004 VO detergents): Alkyle propylene glycole, glycols, alkalis, polyhydric alcohols, defoamers



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#### Hazardous components

CAS No	Chemical name						
	EC No	Index No	REACH No				
	Classification (Regulation (EC) No 1272/2008)						
34590-94-8	-94-8 Dipropylene glycol monomethyl ether, Isomerengem						
	252-104-2		01-2119450011-60				
112-34-5	2-(2-butoxyethoxy)ethanol; d	5 - < 15 %					
	203-961-6	603-096-00-8					
	Eye Irrit. 2; H319						

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

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name					
	Specific Conc.	Specific Conc. Limits, M-factors and ATE				
34590-94-8	252-104-2 Dipropylene glycol monomethyl ether, Isomerengem					
	dermal: LD50 = 19020 mg/kg; oral: LD50 = 5130 mg/kg					
112-34-5	203-961-6 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether		5 - < 15 %			
	dermal: LD50 = 2746 mg/kg; oral: LD50 = 5660 mg/kg					

# SECTION 4: First aid measures

## 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

# After ingestion

Rinse mouth immediately and drink 1 glass of of water.

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

# No information available.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

# Non-flammable. 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# SECTION 6: Accidental release measures



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## 6.1. Personal precautions, protective equipment and emergency procedures

# General advice

Avoid contact with skin, eyes and clothes.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

## Advice on protection against fire and explosion

Water-based surface treatment agents, solvent content up to 15%

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

## 7.3. Specific end use(s)

Electronics cleaner for spray and immersion plants

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
34590-94-8	(2-Methoxymethylethoxy)-I-propanol	50	308		TWA (8 h)	
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
102-71-6	Triethanolamine	-	5		TWA (8 h)	



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## **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
102-71-6	2,2',2"-Nitrilotriethanol			
Worker DNEL,	long-term	dermal	systemic	6,3 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	5 mg/m³
Worker DNEL,	long-term	inhalation	local	5 mg/m³
Consumer DNEL, long-term		dermal	systemic	3,1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,25 mg/m³
Consumer DNEL, long-term		inhalation	local	1,25 mg/m³
Consumer DNEL, long-term		oral	systemic	13 mg/kg bw/day

## **PNEC** values

CAS No	Substance					
Environmen	Environmental compartment Value					
102-71-6	2,2',2"-Nitrilotriethanol					
Freshwater		0,32 mg/l				
Marine wate	0,032 mg/l					
Freshwater	1,7 mg/kg					
Marine sedi	0,17 mg/kg					
Micro-organ	isms in sewage treatment plants (STP)	10 mg/l				
Soil		0,151 mg/kg				
Air		5,12 mg/l				

# 8.2. Exposure controls

# Individual protection measures, such as personal protective equipment

## Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Use of protective clothing.

## **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Liquid colourless specific	
Melting point/freezing point: Boiling point or initial boiling point and	specific	not determined not determined
boiling range: Flammability:		not determined



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Revision date: 05.01.2024 Product code: 0900607-RM Page 5 of 9   Lower explosion limits: not determined   Upper explosion limits: not determined   Flash point: > 100 °C   Auto-ignition temperature: not determined   Decomposition temperature: not determined   Decomposition temperature: not determined   PH-Value (at 20 °C): 10.8   Water solubility: easily soluble   Solubility in other solvents not determined   Partition coefficient n-octanol/water: not determined   Partition coefficient n-octanol/water: not determined   Vapour pressure: not determined   (at 20 °C) 0,99 g/cm <sup>3</sup> Relative vapour density: not determined <b>92.0ther information 105.000 105.0ther information</b> The product is not: Explosive.   Oxidizing properties The product is not: oxidising. <b>Other safety characteristics</b> not determined   Evaporation rate: not determined   Solid content: not determined   Solid content: 30 mPa s   (at 20 °C) 30 mPa s		MultiEx A12	
Upper explosion limits:   not determined     Flash point:   > 100 °C     Auto-ignition temperature:   not determined     Decomposition temperature:   not determined     Decomposition temperature:   not determined     pH-Value (at 20 °C):   10,8     Water solubility:   easily soluble     Solubility in other solvents   not determined     not determined   not determined     Partition coefficient n-octanol/water:   not determined     Vapour pressure:   not determined     (at 20 °C):   0,99 g/cm³     Density (at 20 °C):   0,99 g/cm³     Relative vapour density:   not determined <b>92. Other information</b> Information with regard to physical hazard classes     Explosive properties   The product is not: Explosive.     Oxidizing properties   Oxidizing properties     The product is not: oxidising.   Other safety characteristics     Evaporation rate:   not determined     Solid content:   not determined     Solid content:   30 mPa ·s	Revision date: 05.01.2024	Product code: 090607-RM	Page 5 of 9
Flash point:   > 100 °C     Auto-ignition temperature:   not determined     Decomposition temperature:   not determined     pH-Value (at 20 °C):   10,8     Water solubility:   easily soluble     Solubility in other solvents   and determined     not determined   Partition coefficient n-octanol/water:   not determined     Partition coefficient n-octanol/water:   not determined     Vapour pressure:   not determined     (at 20 °C):   0,99 g/cm³     Density (at 20 °C):   0,99 g/cm³     Relative vapour density:   not determined <b>9.2. Other information 10.8</b> Information with regard to physical hazard classes   Explosive properties     The product is not: Explosive.   Oxidizing properties     The product is not: coxidising. <b>0ther safety characteristics</b> Evaporation rate:   not determined     Solid content:   not determined     Viscosity / dynamic:   30 mPa-s	Lower explosion limits:	not determined	
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Solid content:not determinedViscosity / dynamic:30 mPa·s	Other safety characteristics		
Viscosity / dynamic: 30 mPa·s	Evaporation rate:	not determined	
• •		not determined	
(at 20 °C)		30 mPa·s	
	(at 20 °C)		

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

# 10.4. Conditions to avoid

none

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

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



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CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
34590-94-8	Dipropylene glycol monomethyl ether, Isomerengem									
	oral	LD50 mg/kg	5130	Ratte	АМА					
	dermal	LD50 mg/kg	19020	Ratte						
112-34-5	2-(2-butoxyethoxy)ethand	ol; diethylene	e glycol mono	butyl ether						
	oral	LD50 mg/kg	5660							
	dermal LD50 2746 mg/kg									

#### Irritation and corrosivity

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

#### 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.

# 11.2. Information on other hazards

# Other information

There are no other hazards that require special attention.

## Further information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.



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CAS No	Chemical name						
	Aquatic toxicity	Dose	Dose		Species	Source	Method
34590-94-8	1-8 Dipropylene glycol monomethyl ether, Isomerengem						
	Acute fish toxicity	LC50 mg/l			Pimephales promelas (Amerikan. Elritze)		
	Acute algae toxicity	ErC50 mg/l	>969	96 h	Alge		
	, , , , , , , , , , , , , , , , , , , ,		EC50 1919 mg/l		48 h Daphnia magna (Wasserfloh)		
	Crustacea toxicity	NOEC	12 mg/l		Daphnia magna (Wasserfloh)		
112-34-5	2-(2-butoxyethoxy)ethano	l; diethylene	e glycol mono	butyl eth	ier		
	Acute fish toxicity	LC50 mg/l	1300	96 h			
	Acute algae toxicity	te algae toxicity ErC50 100 mg/l					
	Acute crustacea toxicity EC50 100 mg/l 48 h						

# 12.2. Persistence and degradability

The product has not been tested.

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

The product has not been tested.

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

#### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product has not been tested.

# 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.

# 12.7. Other adverse effects

No information available.

# Further information

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

# Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.



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# List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

# Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

# **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) <u>14.2. UN proper shipping name:</u>	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards	

ENVIRONMENTALLY HAZARDOUS:

14.6. Special precautions for user

No information available.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

No

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 55, Entry 75	
2010/75/EU (VOC):	42,265 % (418,424 g/l)
2004/42/EC (VOC):	50,765 % (502,574 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

#### Additional information

Regulation (EC) No. 648/2004 [Detergents regulation]. To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC

# National regulatory information

Water hazard class (D):

1 - slightly hazardous to water

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

# 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 Harmonized 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50%



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CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

# Relevant H and EUH statements (number and full text)

H319 Causes serious eye irritation.

# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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