

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

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

### 1.1. Product identifier

Trade name	AZ <sup>®</sup> 100
Registration number (REACH)	Not relevant (Mixture)
Article Number	PC0100 – PC0120
Unique Formula Identifier (UFI)	-

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

Relevant identified uses	Water treatment chemical Professional uses Industrial uses
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### 1.3. Details of the supplier of the safety data sheet

Producer	Kurita Europe GmbH Filiale Italiana
Address	Viale Piero e Alberto Pirelli, 6
Place	20126 Milano – ITALIA
Telephon number	+39 02 295 (16453) o (21064)
E-mail	MSDS@kurita.eu

Supplier	ACQUA BREVETTI SRL
Address	VIA Molveno, 8
Place	35035 Mestrino (PD) – ITALY
Telephon number	+39 049 8974006
E-mail	info@acquabrevetti.it

### 1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number):	Emergency CONTACT (24-Hour-Number): Europe: GBK GmbH +49 (0)6132-84463 Milano Ospedale Niguarda +39 02 66101029
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to GHS

This mixture does not meet the criteria for classification.

### 2.2. Label elements

#### Labelling

Not required

### 2.3. Other hazards

#### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not relevant (mixture)

#### 3.2. Mixtures

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
(2-methoxymethylethoxy)propanol	CAS No 34590-94-8  EC No 252-104-2	1 - < 5		

For full text of abbreviations: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Rinse skin with water/shower

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water, holding the eyelids apart.

##### Following ingestion

Rinse mouth. Do not induce vomiting

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

Symptoms and effects are not known to date.

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

No specific antidot is known. Treatment of the symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Co-ordinate firefighting measures to the fire surroundings. Water spray, Alcohol resistant foam, Fire extinguishing powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

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

##### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO)

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

**Special protective equipment for firefighters**

Chemical protection suit, Use suitable breathing apparatus

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Remove persons to safety.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

**6.2. Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3. Methods and material for containment and cleaning up****Advice on how to contain a spill**

Covering of drains

**Advice on how to clean up a spill**

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.)

**Appropriate containment techniques**

Use of adsorbent materials.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4. Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Recommendations****Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

**Advice on general occupational hygiene**

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2. Conditions for safe storage, including any incompatibilities****Specific designs for storage rooms or vessels**

Keep container tightly closed and in a well-ventilated place.

**7.3. Specific end use(s)**

Water treatment chemical. Professional uses. Industrial uses.

**SECTION 8. Exposure controls/personale protection.****8.1. Control parameters**

## Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
EU	(2-methoxy-methylethoxy)propanol	34590-94-8	IOEL V	50	308					H	2000/39/EC
GB	(2-methoxy-methylethoxy)propanol	34590-94-8	WEL	50	308						EH40/2005

**Notation**  
 Ceiling-C ceiling value is a limit value above which exposure should not occur  
 H absorbed through the skin  
 STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)  
 TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours timeweighted average (unless otherwise specified)

## Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
(2-methoxymethylethoxy)propanol	34590-94-8	DNEL	308 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(2-methoxymethylethoxy)propanol	34590-94-8	DNEL	283 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

## Relevant PNECs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment	Source
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	19 mg/l	freshwater	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	1.9 mg/l	marine water	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	4,168 mg/l	sewage treatment plant (STP)	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	70.2 mg/kg	freshwater sediment	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	7.02 mg/kg	marine sediment	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxymethylethoxy)propanol	34590-94-8	PNEC	2.74 mg/kg	soil	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

**8.2. Exposure controls****Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)****Eye/face protection**

Wear eye/face protection.

**Skin protection****Hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374). Layer thickness of gloves at least: 0.4 mm

In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374). Layer thickness of gloves at least: 0.7 mm.

**Type of material**

PVC: polyvinyl chloride, PE: polyethylene, CR: chloroprene (chlorobutadiene) rubber, NBR: acrylonitrilebutadiene rubber, IIR: isobutene-isoprene (butyl) rubber, FKM: fluoro-elastomer

**Breakthrough times of the glove material**

Breakthrough times and swelling properties of the material must be taken into consideration

**Other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

**Body protection**

Wear suitable working clothes.

**Respiratory protection**

Not necessary under normal conditions and provided good general ventilation

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Physical state	liquid
Colour	Colourless - yellow
Odour	characteristic
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not determined
Evaporation rate	not determined
Flammability	Non-combustibile
Upper/lower flammability or explosive limits	not determined
Vapour pressure	not determined
Vapour density	this information is not available
Density	1,02 g/cm <sup>3</sup> at 20 °C

Water solubility	miscible in any proportion
pH (value)	6
Auto-ignition temperature 500 °C	not determined
Decomposition temperature	no data available
Kinematic viscosity	not determined
Particle characteristics	not relevant (liquid)
Partition coefficient n-octanol/water (log value)	this information is not available

**9.2 Other information****Information with regard to physical hazard classes**

hazard classes acc. to GHS (physical hazards): not relevant

Sustained combustibility	no (no sustained combustion was observed)
Corrosive to metals	non-corrosive to metals
Miscibility	Completely miscible with water

**SECTION 10: Stability and reactivity****10.1. Reactivity**

This material is not reactive under normal ambient conditions.

**10.2. Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

There are no specific conditions known which have to be avoided.

**10.5. Incompatible materials**

Oxidisers.

**10.6. Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Test data are not available for the complete mixture.

**Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**Classification acc. to GHS**

This mixture does not meet the criteria for classification

**Acute toxicity**

Shall not be classified as acutely toxic.

**Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

**Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant.

**Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

**Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity – repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**11.2. Information on other hazards**

There is no additional information

**SECTION 12: Ecological information****12.1. Toxicity**

Shall not be classified as hazardous to the aquatic environment.

## Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
(2-methoxymethyl-ethoxy)propanol	34590-94-8	LC50	>1,000 mg/l	fish	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>	96 h
(2-methoxymethyl-ethoxy)propanol	34590-94-8	ErC50	>969 mg/l	algae	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>	72 h
(2-methoxymethyl-ethoxy)propanol	34590-94-8	EC50	>969 mg/l	algae	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>	72 h

## Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
(2-methoxymethyl-ethoxy)propanol	34590-94-8	growth (EbCx) 10%	4,168 mg/l	microorganisms	European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>	18 h

**12.2. Persistence and degradability**

## Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
(2-methoxy-methylethoxy)propanol	34590-94-8	oxygen depletion	75 %	10 d		European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxy-methylethoxy)propanol	34590-94-8	DOC removal	96 %	28 d		European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
(2-methoxy-methylethoxy)propanol	34590-94-8	carbon dioxide generation	76 %	28 d		European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

**12.3. Bioaccumulative potential**

A worth-mentioning accumulation in organisms is not expected.

## Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
(2-methoxymethylethoxy)propanol	34590-94-8		0.004 (25 °C)	

**12.4. Mobility in soil**

Data are not available.

**12.5. Results of PBT and vPvB assessment**

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

**12.6. Endocrine disrupting properties**

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

**12.7. Other adverse effects**

Data are not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Waste treatment of containers/packagings**

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

**Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

**SECTION 14: Transport information**

<b>14.1 UN number</b>	not subject to transport regulations
<b>14.2 UN proper shipping name</b>	not relevant
<b>14.3 Transport hazard class(es)</b>	none
<b>14.4 Packing group</b>	not relevant
<b>14.5 Environmental hazards</b>	non-environmentally hazardous acc. to the dangerous goods regulations
<b>14.6 Special precautions for user</b>	There is no additional information.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations****International Maritime Dangerous Goods Code (IMDG)**

Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR)**

Not subject to ICAO-IATA.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Relevant provisions of the European Union (EU)****Seveso Directive**

2012/18/EU (Seveso III)

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

**Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

none of the ingredients are listed

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

none of the ingredients are listed

**Water Framework Directive (WFD)**

none of the ingredients are listed

**Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013**

none of the ingredients are listed

**Regulation on drug precursors**

none of the ingredients are listed

**Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed

**National regulations (GB)**

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

#### Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

#### 15.2. Chemical Safety Assessment

Chemical Safety Assessment: No.

### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
2.3	Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0,1\%$ .
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0,1\%$ .
4.3	Indication of any immediate medical attention and special treatment needed: No specific antidot is known. Treatment of the symptoms.	Indication of any immediate medical attention and special treatment needed: No specific antidote is known. Treatment of the symptoms.
15.1		National regulations (GB)
15.1		List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list: none of the ingredients are listed
15.1		Restrictions according to GB REACH, Annex 17: none of the ingredients are listed

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)

EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control

<i>Abbr.</i>	<i>Descriptions of used abbreviations</i>
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

**Key literature references and sources for data**

ECHA: European Chemicals Agency, <http://echa.europa.eu/>.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

**List of relevant phrases (code and full text as stated in section 2 and 3)****Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.