

according to Regulation (EC) No 1907/2006

Conductivity standa	ard 10 µS/cm (25 °C) KCI in water/	2-propanol maximum deviation :	± 2	
	μS/cm			
Revision date: 02.11.2023	Product code: 1855)	Page 1 of 11	
SECTION 1: Identification of the	e substance/mixture and of the com	bany/undertaking		
<u>1.1. Product identifier</u> Conductivity standard 10 uS/	cm (25 °C) KCl in water/2-propanol maxin	num deviation + 2 uS/cm		
1.2. Relevant identified uses of the	substance or mixture and uses advised	lagainst		
	tances as such or in preparations at indus nain (administration, education, entertainr			
Uses advised against				
Do not use for private purpos	es (household).			
1.3. Details of the supplier of the s	afety data sheet			
Company name:	AnalytiChem GmbH			
Street:	Stempelstraße 6			
Place:	D-47167 Duisburg			
Telephone:	0203/5194-0	Telefax: 0203/5194-290		
E-mail:	info@analytichem.de			
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117		
E-mail:	produktsicherheit@analytichem.de			
Internet:	www.analytichem.de			
Responsible Department:	Abteilung Produktsicherheit			
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	us Goods] Incidents Spill, Leak, Fire, EC Day or Night Within USA and Canada anada: +1 703-741-5970 (collect calls	a:	
Further Information				
This product is a mixture. REACH Registration Number see section 3.				

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008 Flam. Liq. 3; H226

Eye Irrit. 2; H319 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling propan-2-ol; isopropyl alcohol; isopropanol Warning

Signal word:

Pictograms:



Hazard statements H226

Flammable liquid and vapour.



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	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
Р	Precautionary statemen	ts
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing 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.
	P403+P235	Store in a well-ventilated place. Keep cool.
231	Other hazards	

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Chemical name		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			20 - < 25 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			

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

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Call a physician immediately.



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

Irritant Respiratory complaints Headache Dizziness Dizziness Inebriation Anaesthetic state Unconsciousness Repeated exposure may cause skin dryness or cracking.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.



Conductivity standard 10 µS/cm (25 °C) KCl in water/2-propanol maximum deviation ± 2 uS/cm Revision date: 02.11.2023 Product code: 18559 Page 4 of 11 For emergency responders Precautionary statements For emergency responders : Personal protection equipment: see section 8 6.2. Environmental precautions Do not allow to enter into surface water or drains. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Danger of explosion 6.3. Methods and material for containment and cleaning up For containment Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). For cleaning up Clean contaminated articles and floor according to the environmental legislation. Other information Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols. 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 Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation. Advice on protection against fire and explosion Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Advice on general occupational hygiene Keep away from food, drink and animal feedingstuffs. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol. Further information on handling Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used. 7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels Keep container tightly closed in a cool, well-ventilated place. Store in a cool dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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Further information on storage conditions

Protect from sunlight.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
67-63-0	Propan-2-ol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-63-0	2-Propanol	Acetone	40 mg/L	00	End of shift at end of workweek

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
67-63-0	67-63-0 propan-2-ol; isopropyl alcohol; isopropanol				
Worker DNEL, long-term inhalation			systemic	500 mg/m³	
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day	
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³	
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day	
Consumer DNE	EL, long-term	oral	systemic	26 mg/kg bw/day	

PNEC values

CAS No	Substance			
Environmen	Environmental compartment Value			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Freshwater		140,9 mg/l		
Freshwater	intermittent releases)	140,9 mg/l		
Marine water		140,9 mg/l		
Freshwater sediment 552 mg/kg		552 mg/kg		
Marine sediment 552 mg/kg				
Secondary poisoning 160 mg/kg				
Micro-organisms in sewage treatment plants (STP) 2251 mg/l				
Soil 28 mg/kg				

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection

equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.



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Individual protection measures, such as personal protective equipment

Eye/face protection

goggles Face protection umbrella

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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 720 Camapren® Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 mm Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear fire resistant or flame retardant clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	like: Alcohol	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		>35 °C
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available



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Upper explosion limits: Flash point: Auto-ignition temperature: Decomposition temperature: pH-Value: Viscosity / kinematic: Water solubility: Solubility in other solvents No data available Partition coefficient n-octanol/water: Vapour pressure: Vapour pressure: Density:	No data available ~25 °C No data available No data available No data available easily soluble No data available No data available No data available No data available 0,948 g/cm³	Page 7 of 11
Bulk density: Relative vapour density: <u>9.2. Other information</u>	No data available No data available	
Information with regard to physical hazard class Explosive properties Vapours are heavier than air, spread along flo Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties No data available		
Other safety characteristics Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point:	No data available No data available	
Viscosity / dynamic: Flow time: Further Information No data available	No data available No data available	
SECTION 10: Stability and reactivity		

10.1. Reactivity

In case of warming: Vapours may form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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10.5. Incompatible materials

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Rubber articles Plastic articles

10.6. Hazardous decomposition products

In case of fire: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: 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

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

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.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

Observe risk of aspiration if vomiting occurs. Pulmonary oedema Pneumonia Repeated exposure may cause skin dryness or cracking.

Further information

There are no data available on the mixture itself.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d] Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	Acute fish toxicity	LC50 10000 mg/l	96 h Pimephales promelas	(/	OECD Guideline 203

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05

12.4. Mobility in soil

There are no data available on the mixture itself.

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.

There are no data available on the mixture itself.

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

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1987
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol)
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601
Limited quantity:	5 L
Excepted quantity:	E1



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Transport category:	3		
Hazard No:	30		
Tunnel restriction code:	D/E		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	UN 1987		
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol)		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label:	3		
Classification code:	F1		
Special Provisions:	274 601		
Limited quantity:	5 L E1		
Excepted quantity:	EI		
Marine transport (IMDG)			
14.1. UN number or ID number:	UN 1987		
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (propan-2-ol)		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label:	3		
Special Provisions:	223, 274		
Limited quantity:	5 L		
Excepted quantity:	E1		
EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1987		
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (propan-2-ol)		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label:	3		
Special Provisions:	A3 A180		
Limited quantity Passenger:	10 L		
Passenger LQ:	Y344 E1		
Excepted quantity: IATA-packing instructions - Passenger:	355		
IATA-packing institucions - Passenger: IATA-max. quantity - Passenger:	60 L		
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	366		
IATA-packing instituctions - Cargo:	220 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
SECTION 15: Regulatory information	SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture		
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40 Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).		



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Water hazard class (D):

1 - slightly hazardous to water

SECTION 16: Other information

Abbreviations and acronyms Flam. Liq: Flammable liquid Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)