

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.12.2022 Version number 3 (replaces version 2) Revision: 16.12.2022

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

1.1 Product identifier

· Trade name: Cleaner I

· Article number: 45015, 45016, 45017

· CAS Number: 67-63-0 · EC number: 200-661-7 · Index number: 603-117-00-0

Registration number 01-2119457558-25-xxxx · UFI: 08F2-M0PK-900S-7SXE

· 1.2 Relevant identified uses of the substance or mixture and

uses advised against No further relevant information available.

Application of the substance / the

Solvents mixture

Cleaning material/ Detergent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960

Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable

from: Laboratory

1.4 Emergency telephone

number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 · Hazard pictograms

The substance is classified and labelled according to the CLP regulation.





GHS02 GHS07

· Signal word Danger

· Hazard-determining components of

labelling: propan-2-ol

· Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements If medical advice is needed, have product container or label at P101

P102 Keep out of reach of children.

Read carefully and follow all instructions. P103

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

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P243 Take action to prevent static discharges. P261 Avoid breathing mist/vapours/spray. P280 Wear protective gloves / eye protection. P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

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

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description 67-63-0 propan-2-ol

· Identification number(s)

· EC number: 200-661-7 603-117-00-0 · Index number:

Mixture of substances listed below with nonhazardous additions. · Description: · Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product. After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist,

consult a doctor.

Rinse out mouth and then drink plenty of water. After swallowing:

· 4.2 Most important symptoms and effects, both acute and

delayed Dizziness Nausea

Headache

· Hazards Danger of impaired breathing.

· 4.3 Indication of any immediate medical attention and special

treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

5.2 Special hazards arising from

the substance or mixture Carbon monoxide (CO)

5.3 Advice for firefighters

Wear self-contained respiratory protective device. · Protective equipment:

Wear fully protective suit.

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· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and

<u>emergency procedures</u>

Ensure adequate ventilation
Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

• 6.2 Environmental precautions: Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage

system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Ensure adequate ventilation.

• 6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

<u>handling</u> Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

explosion protection:

Use explosion-proof apparatus / fittings and spark-proof tools.

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles: Store in a cool location.

· Information about storage in one

common storage facility: Sto

Store away from oxidising agents.

· Further information about storage

<u>conditions:</u> Store receptacle in a well ventilated area.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Storage class:

· <u>7.3 Specific end use(s)</u> No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the

workplace: Not required.

· DNELs

67-63-0 propan-2-ol

Oral DNEL (Langzeit-wiederholt) 26 mg/kg bw/day (BEV)

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Dermal	DNEL (Langzeit-wiederholt)	888 mg/kg bw/day (ARB)
		319 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	500 mg/m³ Air (ARB)
		89 mg/m³ Air (BEV)

· PNECs

67-63-0 propan-2-ol

PNEC (wässrig) 2,251 mg/l (KA)

140.9 mg/l (MW) 140.9 mg/l (SW) 140.9 mg/l (WAS)

PNEC (fest) 28

28 mg/kg Trockengew (BO) 552 mg/kg Trockengew (MWS) 552 mg/kg Trockengew (SWS)

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· <u>Appropriate engineering controls</u> No further data; see item 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic

measures:

· Hand protection

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

STOKODERM (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (http://www.stoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves Nitrile rubber, NBR

Butyl rubber, BR

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior

to the application.

· Penetration time of glove material Value for the permeation: Level ≤ 6, 480 min

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are

suitable:

Nitrile rubber, NBR

Camatril (KCL, Art No. 730, 731, 732, 733)

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898) Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Natural rubber, NR Leather gloves

Strong material gloves

· Eye/face protection



Tightly sealed goggles

· Body protection: Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: · Odour: Characteristic -89.5 °C Melting point/freezing point:

· Boiling point or initial boiling point and boiling range 82 °C

· Lower and upper explosion limit

2 Vol % · Lower: 12 Vol % · Upper: 13 °C · Flash point: 425 °C · Ignition temperature:

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Not determined. · pH

· Viscosity:

Not determined. Kinematic viscosity 2.43 mPas · Dynamic at 20 °C:

Solubility

water at 20 °C: 1 g/l Not determined.

Partition coefficient n-octanol/water (log value)

· Vapour pressure at 20 °C: 43 hPa

Density and/or relative density

· Density at 20 °C: 0.79 g/cm³

• 9.2 Other information

· Appearance:

Fluid · Form:

· Important information on protection of health and

environment, and on safety.

Product is not selfigniting. Auto-ignition temperature:

Product is not explosive. However, formation of explosive air/ · Explosive properties:

vapour mixtures are possible.

 Organic solvents: 100.0 % · Molecular weight 60 g/mol

· Information with regard to physical hazard classes

 Explosives Void Void · Flammable gases Void Aerosols Void · Oxidising gases · Gases under pressure Void

· Flammable liquids Highly flammable liquid and vapour.

· Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable

gases in contact with water

Void Void · Oxidising liquids Void · Oxidising solids · Organic peroxides Void · Corrosive to metals Void · Desensitised explosives Void

SECTION 10: Stability and reactivity

No further relevant information available. · 10.1 Reactivity

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous

reactions Reacts with strong oxidising agents.

Reacts with various metals.

Reacts with amines.

Can form explosive mixtures in air if heated above flash point and/or when

sprayed or atomised.

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• 10.4 Conditions to avoid No further relevant information available. No further relevant information available.

· 10.6 Hazardous decomposition

products:

No dangerous decomposition products known.

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.

· LD/LC50	values re	levant for	classification:

67-63-0 propan-2-olOral LD50

LD50 >2,000 mg/kg (rabbit)

5,840 mg/kg (rat) (OECD 401)

NOAEL-Werte 400 mg/kg (rat)

NOALL-Weite 400 light

Dermal LD50 13,900 mg/kg (rabbit) (OECD 402)

LC50/48h >100 mg/l (Leuciscus idus)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation
 Germ cell mutagenicity
 Carcinogenicity
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.

• Carcinogenicity
• Reproductive toxicity

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

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

· STOT-single exposure May cause drowsiness or dizziness.

• STOT-repeated exposure
• Aspiration hazard

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

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

11.2 Information on other hazards

· Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Δn	uatic	toxi	city.	
, ,,	uauc	COAL	OILY.	

67-63-0 propan-2-ol

EC50/24h 9,714 mg/l (daphnia magna)

EC50 >1,000 mg/l (BES)

LC50/24h 9,714 mg/l (daphnia magna)

EC50/15min 22,000 mg/l (Photobac. phosphoreum)
IC50/72h >1,000 mg/l (Desmodesmus subspicatus)
EC10/18h 5,175 mg/l (pseudomonas putida) (DIN 38412)

EC50/72h >1,000 mg/l (green alge)

>100 mg/l (Scenedesmus subspicatus)

9,714 mg/l (daphnia magna) (OECD 202)

LC50/96h 6,550 mg/l (piscis)

9,640 mg/l (Pimephales promelas)

12.2 Persistence and

degradability

EC50/48h

No further relevant information available.

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• 12.3 Bioaccumulative potential No further relevant information available. • 12.4 Mobility in soil No further relevant information available.

• 12.5 Results of PBT and vPvB assessment
 • PBT: Not applicable.
 • vPvB: Not applicable.

12.6 Endocrine disrupting

properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Additional ecological information:

• General notes: Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Assessment by list): slightly

hazardous for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· European waste catalogue

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 00 separately collected fractions (except 15 01)

20 01 13* solvents

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number	
ADR, IMDG, IATA	UN1219

14.2 UN proper shipping name

· ADR 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) solution ISOPROPANOL (ISOPROPYL ALCOHOL) solution

· 14.3 Transport hazard class(es)

· ADR



· <u>Class</u> 3 (F1) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

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<u>Trade name:</u> Cleaner I			
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· <u>Label</u>	3		
· 14.4 Packing group · <u>ADR, IMDG, IATA</u>	II		
· 14.5 Environmental hazards: · Marine pollutant:	No		
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E,S-D B		
· 14.7 Maritime transport in bulk according to IM instruments	O Not applicable.		
· Transport/Additional information:			
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
· Transport category · Tunnel restriction code	2 D/E		
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
· UN "Model Regulation":	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL) SOLUTION, 3, II		

SECTION 15: Regulatory information

- \cdot 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances -

ANNEX I Substance is not listed.
Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the

application of lower-tier

requirements 5,000 t

· Qualifying quantity (tonnes) for the

application of upper-tier

requirements 50,000 t

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

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· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

· Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

· National regulations:

Water hazard class 1 (Assessment by list): slightly hazardous for water. · Waterhazard class:

· Substances of very high concern (SVHC) according to REACH, Article 57

Substance is not listed.

· VOC EU 785.0 g/l

· 15.2 Chemical safety

A Chemical Safety Assessment has not been carried out. assessment:

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Laboratory · Date of previous version: 05.05.2022

· Version number of previous

version:

· Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3