

**SECTION 1: Identification of the substance or mixture and of the supplier****Product identifier****Trade name:** KIT CAT411 Ersatzmembranen, 2 Stück**Synonym:** *KIT CAT411 reserve membrane, 2 pcs***Article number:** 51511288**Recommended use of the chemical and restrictions on use** *No further relevant information available.***Application of the substance / the mixture** *Laboratory chemicals***Supplier's details****Manufacturer/Supplier:***Endress+Hauser**Conducta GmbH+Co. KG**Dieselstraße 24**D-70839 Gerlingen***Further information obtainable from:***Phone: +49 (0)7156 209-10117**E-Mail: MSDS.PCC@endress.com***Emergency phone number** +27 (0)861 555 777**SECTION 2: Hazard identification****Classification of the substance or mixture***flame**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.***GHS label elements****GHS label elements***The product is classified and labelled according to the Globally Harmonised System (GHS).***Hazard pictograms**

GHS02 GHS07

**Signal word** *Danger***Hazard-determining components of labelling:***propan-2-ol***Hazard statements***Highly flammable liquid and vapour.**Causes serious eye irritation.**May cause drowsiness or dizziness.***Precautionary statements***Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

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**Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition or information on ingredients****Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 67-63-0	propan-2-ol	30-50%
EINECS: 200-661-7	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First-aid measures****Description of necessary 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:** Immediately rinse with water.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**Most important symptoms or effects, acute and delayed** No further relevant information available.

**Indication of immediate medical attention and special treatment needed, if necessary**

No further relevant information available.

**SECTION 5: Fire-fighting measures****Suitable extinguishing media****Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** no further information

**Specific hazards arising from the chemical** No further relevant information available.

**Special protective actions for fire fighters** No further relevant information available.

**Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

**Environmental precautions:**

Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of water.

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

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**Reference to other sections**

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.

**Information about fire - and explosion protection:**

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

**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:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

**Storage class:** 3

**Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls or personal protection**

**Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 67-63-0 propan-2-ol**

OEL	Short-term value: 800 ppm Long-term value: 400 ppm
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**Additional information:** The lists valid during the making were used as basis.

**Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

**Individual protection measures, such as personal protective equipment (PPE)**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

**Respiratory protection:**

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.

**Hand protection**



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.  
Only use chemical-protective gloves with CE-labelling of category III.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

**Material of gloves**

Nitrile rubber, NBR

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

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*checked prior to the application.*

### Penetration time of glove material

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

### Eye or face protection



*Tightly sealed goggles*

**Body protection:** *Protective work clothing*

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

**Physical state**

*Fluid*

**Colour:**

*According to product specification*

**Odour:**

*Characteristic*

**Odour threshold:**

*Not determined.*

**Melting point/freezing point:**

*Undetermined.*

**نقطة الغليان أو نقطة الغليان الأولية ونطاق الغليان**

*82 °C*

**Flammability**

*Highly flammable.*

**Upper or lower flammability or explosive limits**

**Lower:**

*2 Vol %*

**Upper:**

*12 Vol %*

**Flash point:**

*< 23 °C*

**Auto-ignition temperature:**

*425 °C*

**Decomposition temperature:**

*Not determined.*

**pH**

*Not determined.*

**Viscosity:**

**Viscosity**

*Not determined.*

**Viscosity**

**Dynamic:**

*Not determined.*

**Solubility**

**water:**

*Fully miscible.*

**Partition coefficient: n-octanol or water**

*Not determined.*

**Vapour pressure at 20 °C:**

*43 hPa*

**Vapour pressure:**

**Vapour density + Relative density**

**Density at 20 °C:**

*0.892 g/cm<sup>3</sup>*

**Relative density**

*Not determined.*

**Vapour density**

*Not determined.*

#### Other information

**Appearance:**

**Form:**

*Fluid*

**Important information on protection of health and environment, and on safety.**

**Ignition temperature:**

*Product is not selfigniting.*

**Explosive properties:**

*Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*

**Solvent content:**

**Organic solvents:**

*50.0 %*

**Water:**

*50.0 %*

**Solids content:**

*0.0 %*

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**Change in condition**

**Evaporation rate**

*Not determined.*

**Information with regard to physical hazard classes**

**Explosives**

*Void*

**Flammable gases**

*Void*

**Aerosols**

*Void*

**Oxidising gases**

*Void*

**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*

**Oxidising liquids**

*Void*

**Oxidising solids**

*Void*

**Organic peroxides**

*Void*

**Corrosive to metals**

*Void*

**Desensitised explosives**

*Void*

**SECTION 10: Stability and reactivity**

**Reactivity** *No further relevant information available.*

**Chemical stability**

**Thermal decomposition / conditions to be avoided:**

*No decomposition if used according to specifications.*

**Possibility of hazardous reactions** *No dangerous reactions known.*

**Conditions to avoid** *No further relevant information available.*

**Incompatible materials:** *No further relevant information available.*

**Hazardous decomposition products:** *No dangerous decomposition products known.*

**SECTION 11: Toxicological information**

**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 relevant for classification:**

**CAS: 67-63-0 propan-2-ol**

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rbt)
Inhalative	LC50/4 h	30 mg/l (rat)

**Serious eye damage or irritation** *Causes serious eye irritation.*

**Specific target organ toxicity – single exposure** *May cause drowsiness or dizziness.*

**Information on other hazards**

**endocrine disrupting potential**

*None of the ingredients is listed.*

**SECTION 12: Ecological information**

**Toxicity**

**Aquatic toxicity:** *No further relevant information available.*

**Persistence and degradability** *No further relevant information available.*

**Bioaccumulative potential** *No further relevant information available.*

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**Mobility in soil** *No further relevant information available.*

**Results of PBT and vPvB assessment**

**PBT:** *Not applicable.*

**vPvB:** *Not applicable.*

**Endocrine disrupting properties**

*The product does not contain substances with endocrine disrupting properties.*

**Other adverse effects**

**Additional ecological information:**

**General notes:**

*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*

*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Recommendation**

*Must not be disposed together with household garbage. Do not allow product to reach sewage system.*

**Uncleaned packaging:**

**Recommendation:** *Disposal must be made according to official regulations.*

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

**SECTION 14: Transport information**

**UN number**

**IMDG, IATA**

UN1219

**UN proper shipping name**

**ADR**

UN1219 ISOPROPANOL (ISOPROPYL ALCOHOL) solution

**IMDG**

**IATA**

ISOPROPANOL (ISOPROPYL ALCOHOL) solution  
Isopropanol (isopropyl alcohol) solution

**Transport hazard class(es)**

**ADR**



**Class**

3 (F1) Flammable liquids.

**Label**

3

**IMDG, IATA**



**Class**

3 Flammable liquids.

**Label**

3

**Packing group**

**ADR, IMDG, IATA**

II

**Environmental hazards:**

*Not applicable.*

**Special precautions for user**

*Warning: Flammable liquids.*

**Hazard identification number (Kemler code):**

33

**EMS Number:**

F-E,S-D

**Stowage Category**

B

**Transport in bulk according to Annex II of**

**MARPOL 73/78 and the IBC Code**

*Not applicable.*

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## Transport/Additional information:

## ADR

Limited quantities (LQ)	1L
Transport category	2
Tunnel restriction code	D/E

## IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	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

## Safety, health and environmental regulations specific for the product in question

## GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

## Hazard pictograms



GHS02 GHS07

Signal word *Danger*

## Hazard-determining components of labelling:

*propan-2-ol*

## Hazard statements

*Highly flammable liquid and vapour.**Causes serious eye irritation.**May cause drowsiness or dizziness.*

## Precautionary statements

*Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

## Directive 2012/18/EU

Named dangerous substances - ANNEX I *None of the ingredients is 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**

## National regulations:

Waterhazard class: *Water hazard class 1 (Self-assessment): slightly hazardous for water.*Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

## 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: *PCC-TWR*Contact: *MSDS.pcc@endress.com*

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**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)*

*IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*

*ICAO: International Civil Aviation Organisation*

*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)*

*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*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*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*

**\* Data compared to the previous version altered.**