

# Safety data sheet

according to 1907/2006/EC, Article 31

Date Printed 02.02.2022

Version number 1

Revision Date 02.02.2022

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

- **1.1 Product identifier**
- **Trade name: Kemet Cleaning Fluid Type CO42**
- **Article number: AGG3408**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Industrial uses: Uses of substances as such or in preparations at industrial sites.
- **Application of the substance / the preparation:** No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier.**  
 Agar Scientific Ltd  
 Parsonage Lane  
 Stansted CM24 8GF  
 United Kingdom  
 sales@agarscientific.com  
 Tel: +44 (0) 1279 813 519
- **Further information obtainable from:** Technical Support
- **1.4 Emergency telephone number:** 24 hours: +44 (0)1856 407333

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2    H411 Toxic to aquatic life with long lasting effects.



Skin Sens. 1      H317 May cause an allergic skin reaction.

STOT SE 3      H336 May cause drowsiness or dizziness.

- **Additional information:**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Flammable. May cause sensitisation by skin contact. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

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

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**Hazard pictograms**


GHS02 GHS07 GHS08 GHS09

**Signal word** Danger

**Hazard-determining components of labelling:**

 Hydrocarbons, C9-C11, n-alkanes, cyclics, <2% aromatics  
d-limonene

**Hazard statements**

 H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards** In use, may form flammable/explosive vapour-air mixture.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures**
**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

EC number: 919-857-5	Hydrocarbons, C9-C11, n-alkanes, cyclics, <2% aromatics ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	50.0%
CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	5.0%
CAS: 5989-27-5 EINECS: 227-813-5	d-limonene ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	5.0%

**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.

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If you feel unwell, seek medical advice (show the label where possible). Keep the affected person warm and at rest. Remove contaminated clothing. Wash all contaminated clothing before reuse.

· **After inhalation:**

Supply fresh air.

No adverse effects are anticipated from inhalation.

Move the exposed person to fresh air. Seek medical attention.

· **After skin contact:**

Wash with water and soap and rinse thoroughly.

Wash off immediately with plenty of soap and water. Remove contaminated clothing.

· **After eye contact:**

Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

· **After swallowing:**

DO NOT INDUCE VOMITING. Drink 1 or 2 glasses of water. Seek medical attention.

· **4.2 Most important symptoms and effects, both acute and delayed**

Inhalation: Headache, nausea and vomiting. In severe cases may cause loss of consciousness.

Vapours may cause drowsiness and dizziness. Inhalation is irritating to the respiratory tract and may cause damage to the central nervous system. Upper respiratory irritation, irritation of nose, throat and airway. Nausea, vomiting. Unconsciousness and convulsions can occur.

Eye contact: May cause irritation to eyes.

Skin contact: Prolonged contact may cause redness, irritation and dryness. Repeated exposure may cause skin dryness and cracking.

Ingestion: Harmful if swallowed. The product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation of pulmonary lesions (medical survey during 48hrs). May cause discomfort if swallowed. Nausea, vomiting. Central nervous system depression.

· **4.3 Indication of any immediate medical attention and special treatment needed**

If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Remove the affected person from the source of contamination immediately.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

Use extinguishing media appropriate to the surrounding fire conditions.

Use as appropriate: CO<sub>2</sub>, Dry chemical, Foam. Do NOT use water jet.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

· **5.3 Advice for firefighters**

· **Protective equipment:** Self-contained breathing apparatus. Protective equipment.

· **Additional information**

Do not allow runoff water to enter sewers or drains. Use water spray to keep containers cool.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective gloves and glasses.

Ensure adequate ventilation of the working area. Keep personnel away from spill. Evacuate personnel to a safe area. Eliminate all sources of ignition.

· **6.2 Environmental precautions:**

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

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

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

Do not allow product to enter drains. Advise local authorities if large spills cannot be contained.

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- **6.3 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 item 13.  
 Ensure adequate ventilation.  
 Clean spillage area thoroughly with plenty of water. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.
- **6.4 Reference to other sections**  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.  
 Wear suitable protective equipment. Do not breathe gas/fumes/vapour/spray. Use in a well ventilated area. Do not spray on naked flame or any other incandescent material. Exhaust ventilation necessary if product is sprayed.
- **Information about fire - and explosion protection:**  
 The dried resin is combustible, similar to wood. Burning dry resin emits dense, black smoke. As latex, material is not combustible.  
 Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
 Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Keep container tightly sealed.  
 Suitable packaging: Plastic containers, PET, Stainless steel containers.
- **7.3 Specific end use(s)**  
 Cleaning. For industrial/research use only. See separate instruction sheet for correct method of use.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:**  
 Ensure adequate ventilation of the working area. Provide appropriate ventilation including local exhaust ventilation to ensure OES or MEL values are not exceeded.

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>107-98-2 1-methoxy-2-propanol</b>	
WEL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm
	Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
	Sk

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Keep away from foodstuffs, beverages and feed.  
 Remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

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- **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.

In case of insufficient ventilation, wear suitable respiratory equipment. Suitable half mask respirator with filter P2 (EN 143).

- **Protection of hands:**



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**

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.

Chemical resistant gloves (PVC).

Nitrile rubber gloves.

- **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 protection:**



Tightly sealed goggles

Safety glasses.

- **Body protection:** Wear suitable protective clothing.

- **Limitation and supervision of exposure into the environment**

Do not allow product to enter drains.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Liquid
Colour:	Clear
Odour:	Pleasant
Odour threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	118 °C

- **Flash point:** 31 °C

- **Flammability (solid, gas):** Not applicable.

- **Decomposition temperature:** Not determined.

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· <b>Auto-ignition temperature:</b>	No data available.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	7 Vol %
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	0.808 g/cm <sup>3</sup>
· <b>Relative density at 20 °C</b>	0.808
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	10.0 %
<b>VOC (EC)</b>	800 g/l 10.00 %
<b>Solids content:</b>	0.0 %
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** FLAMMABLE LIQUID AND VAPOUR.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** None expected under normal conditions of use.
- **10.4 Conditions to avoid**  
Heat, sparks and open flames. Take precautionary measures against static discharge.
- **10.5 Incompatible materials:** Strong acids. Strong oxidising agents.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

 · **LD/LC50 values relevant for classification:**
**5989-27-5 d-limonene**

Oral	LD50	4,400 mg/kg (rat)
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- **Specific symptoms in biological assay:**  
Harmful if swallowed. Inhalation may cause nausea and vomiting. May cause dizziness and headache.
- **Skin corrosion/irritation** May cause irritation to skin.
- **Serious eye damage/irritation** May cause irritation to eyes.

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- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.  
May cause sensitisation by inhalation and skin contact.
- **Subacute to chronic toxicity:**  
Prolonged or repeated exposure may cause irritation to skin and mucuous membranes.
- **Additional toxicological information:**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

- **12.1 Toxicity** Toxic to fish.
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** This product is expected to be readily biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Toxic for fish
- **Other information:** Evaporates readily.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## 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.  
Dispose of this material and its container to hazardous or special waste collection point.  
Can be incinerated if in compliance with local and national regulations. Dispose of as special waste in compliance with local and national regulations.  
Containers must be recycled in compliance with national legislation and environmental regulations.  
Do not pierce or burn, even after use.  
Waste from residues/unused products: do not discharge effluent containing this product into waterways or sewerage systems without proper authorisation.
- **Recommendation:** Disposal must be made according to official regulations.

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**SECTION 14: Transport information**

· 14.1 UN-Number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name · ADR  · IMDG  · IATA	1993 FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, DIPENTENE), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, DIPENTENE), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, DIPENTENE)
· 14.3 Transport hazard class(es) · ADR, IMDG	<div style="display: flex; align-items: center; gap: 10px;">   </div> · Class · Label
· IATA	<div style="display: flex; align-items: center; gap: 10px;">  </div> · Class · Label
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:  · Marine pollutant:  · Special marking (ADR):	Product contains environmentally hazardous substances: d-limonene Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:  · ADR · Limited quantities (LQ) · Excepted quantities (EQ)  · Transport category · Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E

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<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 1993 FLAMMABLE LIQUID, N.O.S. (1-METHOXY-2-PROPANOL, DIPENTENE), 3, III, ENVIRONMENTALLY HAZARDOUS

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** Sales department
- **Contact:**  
sales@agarscientific.com  
Tel: +44 (0) 1279 813 519
- **Abbreviations and acronyms:**  
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  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 3: Flammable liquids – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1

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

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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