

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MENNO Clean

Print date: 16.01.2019

Product code: 5079_DE

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

MENNO Clean

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Cleaning agent for surfaces and instruments (Watersoluble)

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|----------------------------|------------------------------|
| Company name: | MENNO CHEMIE-VERTRIEB GMBH | |
| | Germany | |
| Street: | Langer Kamp 104 | |
| Place: | D-22850 Norderstedt | |
| Telephone: | +49(0)40/5290667-0 | Telefax: +49(0)40/5290667-66 |
| e-mail: | info@menno.de | |
| Contact person: | Jan Nevermann | |
| e-mail: | info@menno.de | |
| Internet: | www.menno.de | |
| Responsible Department: | Menno Chemie-Vertrieb GmbH | |

1.4. Emergency telephone number:Giftinformationszentrum Nord Universität Göttingen, giznord@giz-nord.de
Tel.: +49(0)551/ 1 92 40**Further Information**

The statements made in relation to the physical-chemical properties are not suited for the formulation of specifications.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 2

Hazard Statements:

Flammable liquid and vapour.

Causes serious eye damage.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

propan-1-ol; n-propanol

propan-2-ol; isopropyl alcohol; isopropanol

benzoic acid

Signal word: Danger

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Pictograms:**Hazard statements**

| | |
|------|---|
| H226 | Flammable liquid and vapour. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs (lungs) through prolonged or repeated exposure (via inhalation). |

Precautionary statements

| | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe vapours and spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face 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. |
| P308 | IF exposed or concerned: |
| P310 | Immediately call a POISON CENTER or doctor. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with national regulation. |

Special labelling of certain mixtures

| | |
|--------|---|
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |
|--------|---|

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Cleaning agent active substance concentrate. Contains organic solvents.

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|---|--------------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 71-23-8 | propan-1-ol; n-propanol | | | 20 - < 25 % |
| | 200-746-9 | 603-003-00-0 | | |
| | Flam. Liq. 2, Eye Dam. 1, STOT SE 3; H225 H318 H336 | | | |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | 10 - < 15 % |
| | 200-661-7 | 603-117-00-0 | | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 | | | |
| 65-85-0 | benzoic acid | | | 5 - < 10 % |
| | 200-618-2 | 607-705-00-8 | | |
| | STOT RE 1, Skin Irrit. 2, Eye Dam. 1; H372 H315 H318 | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

Move to fresh air. May cause respiratory tract irritation. (Obtain medical attention.)

After contact with skin

Wash off with soap and water.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

After ingestion

If conscious, drink plenty of water. In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision. If a person vomits when lying on his back, place him in the recovery position.

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

This information is not available.

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

Treat symptomatically. Aspiration may cause pulmonary oedema and pneumonitis.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray, Alcohol-resistant foam

Unsuitable extinguishing media

High volume water jet

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours may form explosive mixtures with air. Burning produces irritant fumes.

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5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

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

Remove all sources of ignition. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2. Environmental precautions

Explosive properties. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4. Reference to other sections

see chapter 7. Handling and storage
For personal protection see section 8.
see chapter 13. Disposal considerations

Remove all sources of ignition.

Treat recovered material as described in the section "Disposal considerations".

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Handle and open container with care.
Do not spray on a naked flame or any incandescent material. When using do not eat or drink.

Advice on protection against fire and explosion

Vapours are heavier than air and may spread along floors. Keep product and empty container away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

Further information on handling

SF245-01 Behandelte Flächen/Kulturen erst nach dem Abtrocknen des Spritzbelages wieder betreten.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Provide adequate ventilation. Keep in a cool, well-ventilated place. Keep away from heat and sources of ignition.
Jointless smooth floor

Advice on storage compatibility

Do not store together with oxidizing and self-igniting products. Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Keep at temperatures between 0 and 30 °C. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

Disinfectant for surfaces and instruments (Watersoluble)

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-------------|-----|-------------------|-----------|---------------|--------|
| 71-23-8 | Propan-1-ol | 200 | 500 | | TWA (8 h) | WEL |
| | | 250 | 625 | | STEL (15 min) | WEL |
| 67-63-0 | Propan-2-ol | 400 | 999 | | TWA (8 h) | WEL |
| | | 500 | 1250 | | STEL (15 min) | WEL |

8.2. Exposure controls



Appropriate engineering controls

Use only in area provided with appropriate exhaust ventilation. Avoid breathing vapours, mist or gas.

Protective and hygiene measures

Take off contaminated clothing and shoes immediately. Preventive skin protection. Wash hands and face before breaks and immediately after handling the product. When using do not eat or drink. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with the skin and the eyes.

Eye/face protection

Tightly fitting safety goggles.

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Wear universal safety gloves (pesticide-resistant) when handling the undiluted product.

Skin protection

Long sleeved clothing.

SS2101 Schutzanzug gegen Pflanzenschutzmittel und festes Schuhwerk (z.B. Gummistiefel) tragen beim Umgang mit dem unverdünnten Mittel.

Respiratory protection

No personal respiratory protective equipment normally required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. In case of insufficient ventilation wear suitable respiratory equipment.

Environmental exposure controls

There are no special recommendations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: colourless, light yellow
 Odour: alcohol-like

Test method

pH-Value (at 20 °C): 1% : approx. 2,8 CIPAC MT75

Changes in the physical state

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Melting point: not determined
 Initial boiling point and boiling range: 82 °C EG A.2
 Flash point: 28,5 °C EG A.9/DIN 51755

Flammability

Solid: not applicable
 Gas: not applicable

Lower explosion limits: 3 vol. %
 Upper explosion limits: 15 vol. %
 Ignition temperature: > 435 °C EG.A15

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

The product has been shown not to be oxidising in a test following Directive 67/548/EEC (Method A17, oxidising properties).

Vapour pressure: 21 hPa
 (at 20 °C)

Density (at 20 °C): 1 g/cm³

Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

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

Flammable, Risk of ignition.

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Keep away from heat and flame. Explosive properties. Direct sources of heat. Strong sunlight for prolonged periods. Stable under normal conditions.

10.5. Incompatible materials

Incompatible with strong bases and oxidizing agents.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity

LD50/oral/rat = > 2000mg/kg (EG B.1/OECD Test Guideline 401)

LD50/dermal/rat = > 2000 mg/kg (EG B.3/OECD Test Guideline 402)

| CAS No | Chemical name | | | | |
|---------|---|--------|-------------|---------|----------|
| | Exposure routes | Method | Dose | Species | Source |
| 71-23-8 | propan-1-ol; n-propanol | | | | |
| | oral | LD50 | 8000 mg/kg | rat | OECD 401 |
| | dermal | LD50 | 4032 mg/kg | rabbit | OECD 402 |
| | inhalative (4 h) vapour | LC50 | >33,8 mg/l | rat | OECD 403 |
| 67-63-0 | propan-2-ol; isopropyl alcohol; isopropanol | | | | |
| | oral | LD50 | >2000 mg/kg | rat | |
| | dermal | LD50 | >2000 mg/kg | rabbit | |
| | inhalative vapour | LC50 | >20 mg/l | rat | |
| 64-18-6 | formic acid | | | | |
| | oral | LD50 | 730 mg/kg | rat | OECD 401 |
| | inhalative (4 h) vapour | LC50 | 7,85 mg/l | rat | BASF |
| | inhalative aerosol | ATE | 0,5 mg/l | | |

Irritation and corrosivity

Acute dermal irritation/corrosion: No skin irritation (EG B.4/OECD 404)

Acute eye irritation/corrosion: irritating (EG B.5/OECD 405)

Sensitising effects

Sensitisation : Did not cause sensitisation on laboratory animals. (EG B.6/OECD 406, Magnusson-Kligman)

Severe effects after repeated or prolonged exposure

No persistent or cumulative effects were observed.

Carcinogenic/mutagenic/toxic effects for reproduction

Benzoessäure is not given in any official list as a carcinogen or mutagen.

Additional information on tests

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Handle in accordance with good industrial hygiene and safety practice. Other dangerous properties can not be excluded.

SECTION 12: Ecological information

12.1. Toxicity

Acute Fish toxicity (LC50/96h/Brachydanio rerio): >100mg/L (OECD 203 / EG C.1)

Toxicity to daphnia EC50/48h/daphnia = 255mg/L (OECD 202 (2004) / EG C.2)

Algal inhibition test 72h ErC50 + EbC50 (Scenedesmus subspicatus): > 1000 mg/L (OECD 201 (2006) / EG C.3)

12.2. Persistence and degradability

See chapter 12.5

12.3. Bioaccumulative potential

Does not bioaccumulate.

12.4. Mobility in soil

Not Rated

12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB). This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

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12.6. Other adverse effects

None known.

Further information

Ecological injuries are not known or expected under normal use. Product does not contain any organic halogens.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of as hazardous waste in compliance with local and national regulations.

Waste disposal number of waste from residues/unused products

020108 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING; wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing; agrochemical waste containing hazardous substances
Classified as hazardous waste.

Waste disposal number of used product

020108 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING; wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing; agrochemical waste containing hazardous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Clean container with water. Where possible recycling is preferred to disposal or incineration. Rinse empty containers with water and use the rinse-water to prepare the working solution. Materials can be delivered to a plastics recycling facilities after cleaning.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---|---|
| <u>14.1. UN number:</u> | UN 1987 |
| <u>14.2. UN proper shipping name:</u> | 1987 - Alcohols, n.o.s., (n-Propanol + Isopropanol , Solution) |
| <u>14.3. Transport hazard class(es):</u> | 3 |
| <u>14.4. Packing group:</u> | III |
| Hazard label: | 3 |



| | |
|--------------------------|----------|
| Classification code: | F1 |
| Special Provisions: | 274, 601 |
| Limited quantity: | 5 L |
| Transport category: | 3 |
| Hazard No: | 30 |
| Tunnel restriction code: | (D/E) |

Marine transport (IMDG)

| | |
|--|--|
| <u>14.1. UN number:</u> | UN 1987 |
| <u>14.2. UN proper shipping name:</u> | 1987 - Alcohols, n.o.s. , (n-Propanol + Isopropanol , Solution) |

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14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Marine pollutant: no
 Special Provisions: 223, 274
 Limited quantity: 5 L
 EmS: F-E, S-D

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Combustible Liquid.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

2004/42/EC (VOC): 67,16 % (671,6 g/l)

Additional information

Use Cleaning agent products safely. Always read the label and product information before use.
 To avoid risks to man and the environment, comply with the instructions for use.
 Wear gas-proof safety goggles when handling the undiluted product.
 Wear universal safety gloves (pesticide-resistant) when handling the undiluted product.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)