

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

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

- **Date of compilation:** 18.05.2005
- **1.1 Product identifier**
- **Trade name:** Melpool Gel
- **1.2 Relevant identified uses of the substance or mixture and uses advised against none**
- **Application of the substance / the preparation:** Cleaning material / Detergent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Melspring International B.V. Phone: +31 (0) 26 - 38420 - 00
Arnhemsestraatweg 8 Fax: +31 (0) 26 - 38420 - 11
NL-6881 NG Velp
- **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de
- **Informing department:** Sales / Technics
- **1.4 Emergency telephone number:** As above or next toxicological information centre.

SECTION 2: Hazards identification

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



GHS05 corrosion

Met. Corr. 1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R35: Causes severe burns.



Xi; Sensitising

R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS05



GHS07

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 1)

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts
D-Limonene

· **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful 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 label before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

· **2.3 Other hazards**

· **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 the substances listed below with nonhazardous additions.

Aqueous solution

· **Dangerous components:**

CAS: 7664-38-2 EINECS: 231-633-2 Index number: 015-011-00-6 Reg.nr.: 01-2119485924-24-XXXX	Phosphoric acid  C R34  Met. Corr. 1, H290; Skin Corr. 1B, H314	3-<10%
CAS: 68439-57-6 EINECS: 270-407-8 Reg.nr.: 01-2119513401-57-XXXX	Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts  Xi R38-41  Eye Dam. 1, H318;  Skin Irrit. 2, H315	≤2.5%
CAS: 5989-27-5 EINECS: 227-813-5 Index number: 601-029-00-7	D-Limonene  Xn R65;  Xi R38;  Xi R43;  N R50/53 R10  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410;  Skin Irrit. 2, H315; Skin Sens. 1, H317	≤2.5%

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

· **Ingredients according to Regulation (EC) No 648/2004:**

anionic surfactants	< 5%
perfumes (D-LIMONENE), perfumes	

GB

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 2)

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing contaminated by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Use eye protection.
Remove contact lenses, if present and easy to do.
Call a doctor immediately.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting - Danger of perforation!
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Danger:** Danger of gastric perforation.
- **4.3 Indication of any immediate medical attention and special treatment needed** symptomatic treatment

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released in case of fire:
Oxides of phosphorus (PxOy)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Avoid contact with skin and eyes.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

GB

(Contd. on page 4)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 3)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Store in cool, dry place in tightly closed containers.
 When diluting, always stir the product into standing water.
 Keep away from heat and direct sunlight.
 Make sure that all applicable workplace limits are observed.
 Avoid skin and eye contact under any circumstances.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:**
 Store away from foodstuffs.
 Do not store together with alkalis (caustic solutions).
 Store away from oxidising agents.
- **Further information about storage conditions:**
 Store in cool, dry conditions in well sealed containers.
 Protect from frost.
 Protect from heat and direct sunlight.
 Caution when reopening containers with broken seal.
 Store in a locked cabinet or with access restricted to specifically instructed persons.
 Store in a locked cabinet and out of the reach of children.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

· Components with critical values that require monitoring at the workplace:

7664-38-2 Phosphoric acid

OES (Great Britain)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ New, IOELV, Sk
TLV (European Union)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³

· DNELs

7664-38-2 Phosphoric acid

Inhalative	DNEL acute / short-term exposure - local effects	2 mg/m ³ (worker)
	DNEL long-term exposure - local effects	0.73 mg/m ³ (general population) 2.92 mg/m ³ (worker)

68439-57-6 Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

Oral	DNEL long-term exposure - systemic effects	12.95 mg/kg bw/d (general population)
Dermal	DNEL long-term exposure - systemic effects	1295 mg/kg bw/d (general population) 2158.33 mg/kg bw/d (worker)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 4)

Inhalative	DNEL long-term exposure - systemic effects	45.04 mg/m ³ (general population) 152.22 mg/m ³ (worker)
5989-27-5 D-Limonene		
Oral	DNEL acute / short-term exposure - systemic effect	4.76 mg/kg bw/d (general population) Lieferanten-SDB
Inhalative	DNEL acute / short-term exposure - systemic effect	33.3 mg/m ³ (worker) Lieferanten-SDB

· PNECs

68439-57-6 Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

PNEC	0.024 mg/l (aqua (freshwater)) 0.0197 mg/l (aqua (intermittent releases)) 0.0024 mg/l (aqua (marine water)) 0.767 mg/kg (sediment (freshwater)) 0.0767 mg/kg (sediment (marine water)) 1.21 mg/kg (soil) 4 mg/l (STP (sewage treatment plant))
------	--

· **Additional information:** The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Instantly remove any contaminated garments.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

Use skin protection cream for preventive skin protection.

· Breathing equipment:

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· Recommended filter device for short term use:

Filter marking A (colour code brown), for filtering of organic gas/vapour with boiling point over 65 °C.

· Protection of hands:

Protective gloves

Check the permeability prior to each renewed use of the glove.

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

· 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.

· Not suitable are gloves made of the following materials:

Textile gloves

Leather gloves

· Eye protection: Tightly sealed safety glasses

· Body protection:

Acid resistant protective clothing

Body protection must be chosen depending on activity and possible exposure.

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 5)

- **Limitation and supervision of exposure into the environment**
Do not allow to enter drainage system, surface or ground water.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	liquid
Colour:	off white
Smell:	of citrus fruits
Odour threshold:	no data available

· pH-value (10 g/l) at 20 °C: 1.5 - 2.5

· Change in condition

Melting point/Melting range:	not determined
Boiling point/Boiling range:	100 °C

· Flash point: not applicable

· Inflammability (solid, gaseous) not applicable

· Ignition temperature: no data available

· Decomposition temperature: no data available

· Self-inflammability: Product is not selfigniting.

· Danger of explosion: Product is not explosive.

· Critical values for explosion:

Lower:	no data available
Upper:	no data available

· Oxidising properties: not classified as oxidising

· Vapor pressure: no data available

· Density at 20 °C: 1.03 g/cm³

· Relative density: no data available

· Vapour density (AIR = 1): no data available

· Evaporation rate: no data available

· Solubility in / Miscibility with

Water: fully miscible

· Partition coefficient (n-octanol/water): no data available

· Viscosity:

dynamic:	no data available
kinematic:	no data available

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity see 10.3

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions: No dangerous reactions known.

(Contd. on page 7)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 6)

- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Alkaline materials
Strong oxidizing agents
- **10.6 Hazardous decomposition products:** Phosphorus oxides (e.g. P_2O_5)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7664-38-2 Phosphoric acid

Oral	LD50	1530 mg/kg (rat)
Dermal	LD50	2740 mg/kg (rabbit)
Inhalative	LC50/1 h	1.689 mg/l (rabbit)

68439-57-6 Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

Oral	LD50	> 2000 mg/kg (rat) (OECD 401)
Dermal	LD50	6300 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	> 52 mg/m ³ (rat) (OECD 403 (mg/l))

5989-27-5 D-Limonene

Oral	LD50	4400 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritating to skin.
- **on the eye:** Irritant effect

- **Subacute to chronic toxicity:**

68439-57-6 Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts

NOAEL	259 mg/kg/d (rat) (2 Years)
-------	-----------------------------

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

- **Sensitisation** May cause sensitisation by skin contact.
- **Repeated dose toxicity** no data / no sufficient data available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
According to present knowledge no CMR-effects known.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
not determined

7664-38-2 Phosphoric acid

EC50/24 h	29 mg/l (water flea (daphnia magna)) (ISO 6341 15) Water quality
EC50/72 h	> 100 mg/l (algae (Desmodesmus subspicatus))

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 7)

IC50	270 mg/l (bacteria)
LC50/96 h	75.1 mg/l (oryzias latipes)
68439-57-6 Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts	
EC50	> 1000 mg/l (bacteria) (DIN 38412 Part 8)
EC50/48 h	4.53 mg/l (daphnia)
EC50/72 h	5.2 mg/l (algae) (OECD 201)
LC50/96 h	4.2 mg/l (zebra fish (danio rerio)) (OECD 203)
5989-27-5 D-Limonene	
EC50/48 h	0.36 mg/l (water flea (daphnia magna)) (OECD 202)
ErC50/72 h	150 mg/l (algae (Desmodesmus subspicatus)) (OECD 201)
LC50/96 h	0.72 mg/l (fathead minnow (pimephales promelas)) (OECD 203)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 - Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
 - Must not reach sewage water or drainage ditch undiluted or unneutralised.
 - Water hazard class 1 (Self-assessment): slightly hazardous for water
- **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** Disposal must be made according to official regulations.
- **European waste catalogue:**
 - Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1805
- **14.2 UN proper shipping name**
- **IMDG, IATA** PHOSPHORIC ACID, SOLUTION

(Contd. on page 9)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 8)

· 14.3 Transport hazard class(es)

· ADR



· Class 8 (C1) Corrosive substances.
· Label 8

· IMDG, IATA



· Class 8 Corrosive substances.
· Label 8

· 14.4 Packing group

· ADR, IMDG, IATA III

· 14.6 Special precautions for user

· Warning: Corrosive substances.
· Kemler Number: 80
· EMS Number: F-A,S-B
· Segregation groups Acids

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

Not applicable.

· Transport/Additional information: Not dangerous according to the above specifications.

· ADR

· Limited quantities (LQ): 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
· Transport category: 3
· Tunnel restriction code: E

· IMDG

· Limited quantities (LQ) 5L
· Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· UN "Model Regulation": -

SECTION 15: Regulatory information

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

· National regulations

· Information about limitation of use: Employment restrictions concerning young persons must be observed.

· Decree to be applied in case of technical fault: Directive 2012/18/EU does not apply.

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water

(Contd. on page 10)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 9)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Reasons for changes:**

The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.

Changes in classification and labelling

Revised transport classification

· **Relevant phrases**

The(se) R-phrases resp. H-statement(s) are those of the ingredient(s) and do(es) NOT represent the classification of the preparation/mixture.

H226 Flammable liquid and vapour.

H290 May be corrosive to metals.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.

R34 Causes burns.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

· **Department issuing MSDS:**

C.S.B. GmbH Phone: +49 - 2151 - 652086-0

Düsseldorfer Str. 113 Fax: +49 - 2151 - 652086-9

47809 Krefeld / Germany

· **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 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 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Met. Corr. 1: Corrosive to metals, Hazard Category 1

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.05.2015

Version number 2

Revision: 07.05.2015

Trade name: Melpool Gel

(Contd. of page 10)

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **Sources:** These data are based on information submitted by pre-suppliers.

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

GB