

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

Printing date 06.05.2015


Version number 2

Revision: 06.05.2015

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

- **Date of compilation:** 25.04.2000
- **1.1 Product identifier**
- **Trade name:** Melpool DET
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation:** Filter aid / Filtration accelerator
- **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.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

- R35: Causes severe burns.
- **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

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Phosphoric acid
- **Hazard statements**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
- **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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 1)

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.

P315 Get immediate medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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	10-<25%
CAS: 68439-51-0	Alcohols, C12-14, ethoxylated propoxylated R52/53 Aquatic Chronic 3, H412	≤2.5%

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

non-ionic surfactants	< 5%
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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 and call for doctor for safety reasons.

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:

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Do not induce vomiting - Danger of perforation!

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

GB

(Contd. on page 3)

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

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 2)

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:**
- Put on 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.
- Avoid contact with skin and eyes.
- Use breathing protection against the effects of fumes/dust/aerosol.
- Ensure adequate ventilation.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, 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).
- Use neutralising agent.
- Dispose of contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- **6.4 Reference to other sections**
- See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- Ensure good ventilation/exhaustion at the workplace.
- When diluting, always stir the product into standing water.
- Prevent formation of aerosols.
- Do not inhale aerosols.
- Avoid skin and eye contact under any circumstances.
- Make sure that all applicable workplace limits are observed.
- **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 container in a well ventilated position.
- Store in cool, dry conditions in well sealed containers.
- Protect from heat and direct sunlight.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 3)

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.

Recommended storage temperature: > 15 °C

- **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/m³
Long-term value: 1 mg/m³
New, IOELV, Sk

TLV (European Union) Short-term value: 2 mg/m³
Long-term value: 1 mg/m³

· 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)

- **PNECs** no data available

- **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.

Instantly remove any contaminated garments.

Do not eat, drink or smoke while working.

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

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

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Use skin protection cream for preventive skin protection.

· Breathing equipment:

Use breathing protection when aerosol or mist is formed.

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

- **Protection of hands:** Protective gloves

· Material of gloves

Butyl rubber - BR

Fluorocarbon rubber (Viton) - FKM

Nitrile rubber - NBR

Natural rubber - NR

Chloroprene rubber - CR

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.

- **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.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 4)

- **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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	liquid
Colour:	colourless
Smell:	odourless
Odour threshold:	no data available

· **pH-value (100 g/l) at 20 °C:** < 0.5

· Change in condition

Melting point/Melting range:	not determined
Boiling point/Boiling range:	not determined

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** not applicable

· **Ignition temperature:** not determined

· **Decomposition temperature:** not determined

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· Critical values for explosion:

Lower:	not determined
Upper:	not determined

· **Oxidising properties** not determined

· **Vapor pressure:** not determined

· **Density at 20 °C:** 1.12 g/cm³

· **Relative density** not determined

· **Vapour density (AIR = 1):** not determined

· **Evaporation rate** not determined

· Solubility in / Miscibility with

Water:	soluble
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· **Partition coefficient (n-octanol/water):** not determined

· Viscosity:

dynamic:	not determined
kinematic:	not determined

· **9.2 Other information** No further relevant information available.

GB

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 5)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** Reacts with metals forming hydrogen
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 - Alkaline materials
 - Strong oxidizing agents
 - Metals
 - Metal oxides
- **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)

- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
- **on the eye:**
 - Causes serious eye damage.
 - Corrosive
- **Sensitisation:** No sensitizing effect known.
- **Subacute to chronic toxicity:** No carcinogenic effect known.
- **Additional toxicological information:**
 - Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **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:**

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))
IC50	270 mg/l (bacteria)
LC50/96 h	75.1 mg/l (oryzias latipes)

- **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.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET



(Contd. of page 6)

- **Additional ecological information:**
- **General notes:** 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**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to disposers of hazardous waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · 14.1 UN-Number · ADR, IMDG, IATA | UN1805 |
| <ul style="list-style-type: none"> · 14.2 UN proper shipping name · ADR · IMDG, IATA | 1805 PHOSPHORIC ACID SOLUTION
PHOSPHORIC ACID, SOLUTION |
| <ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label | 8 (C1) Corrosive substances.
8 |
| <ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center;">  </div> <ul style="list-style-type: none"> · Class · Label | 8 Corrosive substances.
8 |
| <ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA | III |
| <ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: | NO |
| <ul style="list-style-type: none"> · 14.6 Special precautions for user · Kemler Number: · EMS Number: · Segregation groups | Warning: Corrosive substances.
80
F-A,S-B
Acids |

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 7)

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Transport by post may be prohibited or restricted.
· 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":	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III

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
- **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.

- **Relevant phrases**
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.
R34 Causes burns.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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:**
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

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 06.05.2015

Version number 2

Revision: 06.05.2015

Trade name: Melpool DET

(Contd. of page 8)

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

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

Eye Dam. 1: Serious eye damage/eye irritation, 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.**

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