

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.02.2012

Version number 3

Revision: 09.02.2012

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

- **Date of issue:** 20.04.2004
- **Product identifier**
- **Trade name:** Melpool 90/G
- **EC number:**
201-782-8
- **Index number:**
613-031-00-5
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation:** Disinfectant
- **Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Melspring International B.V.
Arnhemsestraatweg 8
NL-6881 NG Velp
Phone: +31 (0) 26 - 38420 - 00
Fax: +31 (0) 26 - 38420 - 11
- **E-mail address of the competent person responsible for the Safety Data Sheet:** sdb@csb-online.de
- **Informing department:** Sales / Technics
- **Emergency telephone number:** As above or next toxicological information centre

2 Hazards identification

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



GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

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



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/37: Irritating to eyes and respiratory system.



O; Oxidising

R8: Contact with combustible material may cause fire.



N; Dangerous for the environment

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

R31: Contact with acids liberates toxic gas.

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- **Label elements**

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

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

- **Hazard pictograms**



GHS03 GHS07 GHS09

- **Signal word** *Danger*

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

Trichloroisocyanuric acid

- **Hazard statements**

H272 May intensify fire; oxidiser.

H302+EUH031 Harmful if swallowed. Contact with acids liberates toxic gas.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very 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 label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P273 Avoid release to the environment.

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

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P391 Collect spillage.

P401 Store in accordance with local/regional/national/international regulations.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Designation:**

symclosene

- **Identification number(s):**

- **EC number:** 201-782-8

- **Index number:** 613-031-00-5

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4 First aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing contaminated by the product.

Personal protection for the person providing first aid.

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact:**

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult doctor.

Remove contact lenses, if present and easy to do. Continue rinsing.

- **After swallowing:**

Do not induce vomiting!

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

- **Information for doctor:**

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

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents** Only use plenty of water.

- **For safety reasons unsuitable extinguishing agents** All but water.

- **Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire:

Chlorine

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

Carbon monoxide (CO) and Carbon dioxide (CO₂)

Oxidising by development of oxygen

- **Advice for firefighters**

- **Protective equipment:** Wear self-contained breathing apparatus.

- **Additional information**

Cool endangered containers with water spray jet.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

If without risk possible, move drums with material away from dangerous area.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective clothing and keep away unprotected persons.

Keep people at a distance and stay on the windward side.

Avoid contact with skin and eyes.

Put on breathing apparatus.

Do not breathe dust.

Ensure adequate ventilation.

- **Environmental precautions:**

Damp down dust with water spray jet.

Do not allow to enter drainage system, surface or ground water.

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Inform respective authorities in case product reaches water or sewage system.

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

Ensure adequate ventilation.

Collect mechanically.

Dispose of the material collected according to regulations.

Avoid mixing with acids/materials containing acids under any circumstances.

· **Reference to other sections**

See Section 8 for information on personal protection equipment.

7 Handling and storage

· **Handling**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Do not replace residual quantities in storage containers.

Any deposit of dust which cannot be avoided must be removed regularly.

Do not breathe dust.

Avoid mixing with acids/materials containing acids under any circumstances.

· **Information about protection against explosions and fires:**

Substance/product can reduce the ignition temperature of flammable substances.

Keep breathing equipment ready.

Keep ignition sources away - Do not smoke.

Do not spray on flames or red-hot objects.

· **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.

According to local/national regulations.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from flammable substances.

Store away from reducing agents.

Do not store together with acids.

Observe all regulations for storage of oxidizing substances.

· **Further information about storage conditions:**

Protect from humidity and keep away from water.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

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

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

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

Observe all workplace limits for dust.

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

7782-50-5 Chlorine

OES (Great Britain)	Short-term value: 2.9 mg/m ³ , 1 ppm
	Long-term value: 1.5 mg/m ³ , 0.5 ppm

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

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- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
 Keep away from foodstuffs, beverages and food.
 Instantly remove any contaminated garments.
 Avoid contact with the eyes and skin.
 Use skin protection cream for preventive skin protection.
 Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
 If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
 Use breathing protection in case of dust formation.
- **Protection of hands:**
 Protective gloves
 To avoid skin problems reduce the wearing of gloves to the required minimum.
 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**
 PVC gloves
 Rubber 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.
- **Eye protection:** Tightly sealed safety glasses
- **Body protection:**
 Acid resistant protective clothing
 Protective clothing should be selected specifically for the working place.

9 Physical and chemical properties

- | | |
|--|---------------------------|
| · Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| Form: | solid in various forms |
| Colour: | white |
| · Smell: | chlorine-like |
| · pH-value at 20°C: | 3 |
| · Change in condition | |
| Melting point/Melting range: 225 - 240°C | |
| Boiling point/Boiling range: not determined | |
| · Flash point: | not applicable |
| · Inflammability (solid, gaseous) Contact with combustible material may cause fire. | |
| · Danger of explosion: | Product is not explosive. |
| · Critical values for explosion: | |
| Oxidizing properties | oxidising |
| · Vapor pressure at 20°C: | k.D.v. hPa |
| · Density at 20°C: | ~ 2.5 g/cm ³ |
| · Solubility in / Miscibility with | |
| Water at 25°C: | 12 g/l |
| · Other information No further relevant information available. | |

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10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
 - Sources of ignition
 - Electrostatic charges
 - Heat
 - Humidity
- **Possibility of hazardous reactions**
 - Reacts with flammable substances
 - Reacts with fabric soaked in the product (e.g. cleaning wool)
 - Acts as an oxidizing agent on organic materials such as wood, paper and fats.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:**
 - Acids
 - Reducing agents
 - Flammable materials
- **Hazardous decomposition products:**
 - Nitrous vitriol gases
 - Chlorine
 - Nitrogen oxides (NO_x)
 - Hydrogen chloride (HCl)
 - Carbon monoxide (CO) and Carbon dioxide (CO₂)
 - Poisonous gases/vapours

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

Oral	LD50	406 mg/kg (rat) (RTECS)
	LDLo	3750 mg/kg (human) (RTECS)
Dermal	LD50	> 2000 mg/kg (rabbit) (IUCLID)
- **Primary irritant effect:**
- **on the skin:** Longer lasting and/or repeated skin contact may cause irritation.
- **on the eye:** Irritant effect
- **Sensitization:** No sensitizing effect known.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:**

EC50/48 h	0.17 mg/l (daphnia) (ECOTOX Database)
LC50/96 h	0.2 mg/l (bluegill (lepisomis macrochirus)) (ECOTOX Database)
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** not determined
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish and aquatic organisms.

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- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water bodies or sewage system.
Very toxic for aquatic organisms
Water hazard class 2 (Assessment by list): hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Disposal must be made according to official regulations.
- **Waste disposal key number:** According to local/national 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.

14 Transport information

- | | |
|---|---|
| · UN-Number | UN2468 |
| · ADR, IMDG, IATA | |
| · UN proper shipping name | 2468 TRICHLOROISOCYANURIC ACID, DRY |
| · ADR | TRICHLOROISOCYANURIC ACID, DRY, MARINE |
| · IMDG | POLLUTANT |
| · IATA | TRICHLOROISOCYANURIC ACID, DRY |
| · Transport hazard class(es) | |
| · ADR | |
|  |  |
| · Class | 5.1 (O2) Oxidising substances. |
| · Label | 5.1 |
| · IMDG | |
|  |  |
| · Class | 5.1 Oxidising substances. |
| · Label | 5.1 |

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· **IATA**

- **Class** 5.1 Oxidising substances.
- **Label** 5.1

- **Packing group**
- **ADR, IMDG, IATA** II

- **Environmental hazards:**
- **Marine pollutant:** Symbol (fish and tree)
- **Special marking (ADR):** Symbol (fish and tree)

- **Special precautions for user** Warning: Oxidising substances.
- **Kemler Number:** 50
- **EMS Number:** F-A,S-Q

- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

- **Transport/Additional information:** Transport by post may be prohibited or restricted.

- **ADR**
- **Excepted quantities (EQ):** E2
- **Limited quantities (LQ):** 1 kg
- **Transport category:** 2
- **Tunnel restriction code:** E

- **UN "Model Regulation":** UN2468, TRICHLOROISOCYANURIC ACID, DRY, ENVIRONMENTALLY HAZARDOUS, 5.1, II

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS03 GHS07 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Trichloroisocyanuric acid
- **Hazard statements**
 - H272 May intensify fire; oxidiser.
 - H302+EUH031 Harmful if swallowed. Contact with acids liberates toxic gas.
 - H319 Causes serious eye irritation.
 - H335 May cause respiratory irritation.
 - H410 Very 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 label before use.

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- P210 *Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
- P261 *Avoid breathing dust/fume/gas/mist/vapours/spray.*
- P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
- P273 *Avoid release to the environment.*
- P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P309+P311 *IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.*
- P304+P340 *IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*
- P301+P330+P331 *IF SWALLOWED: rinse mouth. Do NOT induce vomiting.*
- P391 *Collect spillage.*
- P401 *Store in accordance with local/regional/national/international regulations.*
- P405 *Store locked up.*
- P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **National regulations**

- **Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

- **Decree to be applied in case of technical fault:**

Quantity limits according to "EC Seveso directive" should be observed.

- **Water hazard class:**

Water hazard class 2 (Assessment by list): hazardous for water

ID-Number: 7322

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

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 *.*

- **Department issuing MSDS:**

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

Parkstraße 29 Fax: +49 - 2151 - 652086-9

D-47829 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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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