

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

1 Identification of substance:

· **Product details:**

· **Trade name:** Pool Power Trichloroisocyanuric acid tablets 20g and 200g

· **Application of the substance / the preparation** Disinfectant

· **Manufacturer/Supplier:**

Melspring International BV
Jansbuitensingel 20, P.O. Box 143
NL-6800 AC Arnhem

Phone: +31-(0)26-44 51 251
Fax: +31-(0)26-44 25 093

· **Informing department:** Sales/ Technics

· **Emergency information:**

National (Dutch) Toxic Information Center
Phone: ++31-302748888

2 Composition/Data on components:

· **Chemical characterization:**

· **CAS No. Designation:**

87-90-1 symclosene

· **Identification number(s):**

· **EINECS Number:** 201-782-8

· **EC Number:** 613-031-00-5

3 Hazards identification

· **Hazard designation:**



Xn Harmful
O Oxidising
N Dangerous for the environment

· **Information pertaining to particular dangers for man and environment**

R 8 Contact with combustible material may cause fire.

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 36/37 Irritating to eyes and respiratory system.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4 First aid measures

· **General information**

Instantly remove any clothing contaminated by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation** Supply fresh air and call for doctor for safety reasons.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

(Contd. on page 2)

GB

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

Trade name: Pool Power Trichloroisocyanuric acid tablets 20g and 200g

(Contd. of page 1)

Call a doctor immediately.

5 Fire fighting measures

- **Suitable extinguishing agents** Only use plenty of water
- **For safety reasons unsuitable extinguishing agents** All but water
- **Special hazards caused by the material, its products of combustion or flue gases:**
 - Chlorine
 - Chlorinedioxide
 - Formation of poisonous gases during heating or in fires.
 - Nitrogen oxides (NOx)
 - Hydrogen chloride (HCl)
 - Carbon monoxide and carbon dioxide
 - Oxidising by development of oxygen
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

- **Person-related safety precautions:**
 - Keep people at a distance and stay on the windward side.
 - Avoid skin and eye contact.
 - Put on breathing apparatus.
 - Ensure adequate ventilation.
- **Measures for environmental protection:**
 - Damp down dust with water spray jet.
 - Inform respective authorities in case product reaches water or sewage system.
 - Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
 - Ensure adequate ventilation.
 - Collect mechanically.
 - Dispose of the material collected according to regulations.
 - Avoid mixing with acids/materials containing acids under any circumstances.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Do not replace residual quantities in storage containers.
 - Any deposit of dust which cannot be avoided must be removed regularly.
 - Do not breathe dust.
 - Make sure that all applicable workplace limits are observed.
 - Ensure good ventilation/exhaustion at the workplace.
 - Any mixing with acids/products containing acids must be avoided under any circumstances.
- **Information about protection against explosions and fires:**
 - Substance/product can reduce the ignition temperature of flammable substances.
 - Keep breathing equipment ready.
- **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.

(Contd. on page 3)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

Trade name: Pool Power Trichloroisocyanuric acid tablets 20g and 200g

(Contd. of page 2)

· Information about storage in one common storage facility:

- 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.
- Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

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

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

- Observe all workplace limits for dust:
- OEL total dust: 10 mg/m³
- OEL respirable dust: 3 mg/m³

· **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.

· **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.
- Dust proof mask - particle filter mask

· **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.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **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:** Protective work clothing

GB

(Contd. on page 4)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

Trade name: Pool Power Trichloroisocyanuric acid tablets 20g and 200g

(Contd. of page 3)

9 Physical and chemical properties:

· General Information

Form: solid in various forms
Colour: white
Smell: Chlorine-like

· 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

· Vapour pressure at 20°C: k.D.v. hPa

· Density at 20°C ~ 2.5 g/cm³

· Solubility in / Miscibility with

Water at 25°C: 12 g/l

· pH-value at 20°C: 3

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

Sources of ignition
 Electrostatic charges
 Heat
 Humidity

· Materials to be avoided:

Acids
 Reducing agents
 Flammable materials

· Dangerous 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.

· Dangerous products of decomposition:

Nitrous vitriol gases
 Chlorine
 Nitrogen oxides (NO_x)
 Hydrogen chloride (HCl)
 Carbon monoxide and carbon dioxide

GB

(Contd. on page 5)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

Trade name: Pool Power Trichloroisocyanuric acid tablets 20g and 200g

(Contd. of page 4)

11 Toxicological information

· **Acute toxicity:**

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

87-90-1 symclosene

Oral	LD50	490 mg/kg (rat)
------	------	-----------------

· **Primary irritant effect:**

· **on the skin:** Contact with humidity may cause corrosive or irritant effects.

· **on the eye:**

Contact with humidity may cause corrosive or irritant effects.

Irritant effect

· **Sensitization:** No sensitizing effect known.

12 Ecological information:

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish and aquatic organisms.

· **General notes:**

The material is harmful for the environment.

Very toxic to aquatic organisms.

Water hazard class 2 (Self-assessment): hazardous for water.

13 Disposal considerations

· **Product:**

· **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.

· **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

· **Land transport ADR/RID (cross-border)**



· **ADR/RID Class:** 5.1 (O2) Oxidizing substances.

· **Kemler Number:** 50

· **UN-Number:** 2468

· **Packaging group:** II

· **Label** 5.1

(Contd. on page 6)

GB

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

Trade name: Pool Power Trichloroisocyanuric acid tablets 20g and 200g

(Contd. of page 5)

· **Designation of goods:** 2468 TRICHLOROISOCYANURIC ACID, DRY

· **Maritime transport IMDG/GGVSea:**



· **IMDG/GGVSea Class:** 5.1
 · **UN Number:** 2468
 · **Label:** 5.1
 · **Packaging group:** II
 · **EMS Number:** F-A,S-Q
 · **Correct technical name:** TRICHLOROISOCYANURIC ACID, DRY

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 5.1
 · **UN/ID Number:** 2468
 · **Label:** 5.1
 · **Packaging group:** II
 · **Correct technical name:** TRICHLOROISOCYANURIC ACID, DRY

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

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified/labelled in accordance with EC Directives / relevant national laws.

· **Code letter and hazard designation of product:**



Xn Harmful
 O Oxidising
 N Dangerous for the environment

· **Risk phrases:**

8 Contact with combustible material may cause fire.
 22 Harmful if swallowed.
 31 Contact with acids liberates toxic gas.
 36/37 Irritating to eyes and respiratory system.
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

2 Keep out of the reach of children.
 8 Keep container dry.
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 41 In case of fire and/or explosion do not breathe fumes.
 60 This material and its container must be disposed of as hazardous waste.
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

(Contd. on page 7)

Material Safety Data Sheet

According to 91/155 EEC

Printing date 10.04.2005

Reviewed on 10.04.2005

Trade name: Pool Power Trichloroisocyanuric acid tablets 20g and 200g

(Contd. of page 6)

· National regulations**· Information about limitation of use:***Employment restrictions concerning young persons 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 (Self-assessment): hazardous for water.***· Other regulations, limitations and prohibitive regulations***Observe restrictions on the marketing and use according to Directive 76/769/EEC.***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.***· Department issuing data specification sheet:**

C.S.B. GmbH

Phone: ++49-2151 - 652086-0

Oberstraße 10

Fax: ++49-2151 - 652086-9

D-47829 Krefeld

· Contact:

GB