

**Article Number : 554220****Trade Name** : Protho Clean 75 ml**Print Date** : 21.07.04**Last revision date:** 30.06.04**1. NAME OF SUBSTANCE / PREPARATION AND COMPANY****Trade name: Protho Clean (75 ml)****Manufacturer:**Häger & Werken GmbH & Co. KG  
Ackerstr. 1 D-47269 Duisburg  
P.O.B. 10 06 54 D-47006 Duisburg  
Phone : +49 (0203) 99 26 9 - 0**2. NAME OF SUBSTANCE / PREPARATION****Chemical description:**

Aerosol preparation consisting of silicone oil, mint oil, solvents and liquefied petroleum gas (LPG)

**Contents:** Hydrocarbon, terpenes, polydimethylsiloxanes, propane/butane (LPG)

CAS NO	Ingredient	Concentration	Hazard Symbol	R-Phrases
74-98-6	LPG: propane	05 - 15 %	F+	R12
106-97-8	butane	30 - 50 %	F+	R12
109-66-0	n-pentane	10 - 20 %	F+	Nn, N, 12, 51/53, 65, 66, 67

**3. POSSIBLE HAZARDS**

Extremely flammable. Possible formation of explosive/extremely flammable vapour/air mixture. Explosion hazard at high temperatures.

Harmful to health. May cause lung damage if ingested. Repeated contact may cause chapped skin. Vapours may cause drowsiness and dizziness.

Harmful to environment. Harmful to aquatic organisms, may cause long-term adverse effect in the aquatic environment.

**4. FIRST AID MEASURES****Inhalation:** remove individual to fresh air. Keep individual calm. Obtain medical attention.**Eye Contact:** flush thoroughly with copious amounts of water and consult physician**Skin Contact:** wash thoroughly off with water. Remove contaminated clothing**If swallowed:** obtain medical attention. Do not induce vomiting.**5. FIRE FIGHTING MEASURES****Suitable extinguishing agents:** foam, dry agent, carbon dioxide**Extinguishing agents unsuitable for safety reasons:** full water jet**Specific hazards caused by the material, its combustion products or flue gases:**

in fire conditions: release of carbon monoxide, carbon dioxide, unburnt hydrocarbon

**Specific protective equipment:** wear self-contained breathing apparatus and fully protective suit**Additional information:** possible formation of explosive vapour/air mixture. Cool endangered containers with water jet spray. Prevent entry into canalisation – explosion hazard.

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## 6. ACTIONS IN CASE OF UNINTENTIONAL RELEASE

**Person-related safety precautions:** ensure adequate ventilation. Keep away from sources of ignition. Wear breathing protection if exposed to vapours, dust, and aerosol. Wear suitable personal protective clothing. Remove victim to a safe area.

**Measures for environmental protection:** keep out of the sewage system. Notify responsible authorities in case of entry into the sewage system.

**Measures for cleaning / collecting:** absorb with suitable liquid absorbing material. Ensure proper disposal of collected material.

**Additional information:** keep away from sources of ignition. Do not smoke. Sort out and dispose of leaky containers.

## 7. HANDLING AND STORAGE

### a.) Handling:

**Information regarding safe handling:** use only in well-ventilated areas. Do not expose to temperatures above 50 °C. Do not spray into eyes.

**Information regarding protection against fire and explosion:** Keep away from sources of ignition. Do not smoke. Volatile matters may be released during processing. Take precautionary measures against static discharges. Vapours may form an explosive mixture with air.

### b.) Storage:

**Requirements regarding storage rooms and containers:** observe storage regulation of TRG 300. Solvent-resistant and tight flooring required.

Content of container: 75 ml

Type of container/material: aluminium block

Storage temperature (min.): 10 °C

Storage temperature (max.): 25 °C

Additional information: store in cool place, high temperature leads to increased pressure and explosion

## 8. MAXIMUM EXPOSURE LIMITS AND PERSONAL PROTECTION EQUIPMENT

**Technical safety measures:** -

**Personal safety measures:** -

**Work/Hygienic measures:** Keep away from edibles and beverages. Do not inhale aerosol. Avoid contact with eyes and skin.

**MAK:** no data available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** aerosol

**Colour:** colourless, clear

**Odour:** mint

**Safety relevant data**

**Freezing point:** -

**Boiling point:** 36 °C (active ingredient)

**Flash point:** < -21 °C (active ingredient)

**Vapour pressure at 20 °C:** N/A

**Density at 20 °C:** approx. 0.72 g/cm<sup>3</sup> (effective ingredient)

**Solubility in water:** not soluble

**Viscosity at 20 °C:** no data available

**pH-value:** N/A

**Explosions limits: Low:** 1.5 vol%

**High:** 9.5 vol% (propane/butane)

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## 10. STABILITY AND REACTIVITY

**Hazardous reactions:** Formation of explosive gas mixture in connection with air. Do not expose to temperatures exceeding 50 °C. Explosion hazard.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** N/A

**Additional information regarding toxicity:** product was not tested.

## 12. ECOLOGICAL INFORMATION

**Water hazard class:** 1 (VwVwS – 17.05.1999)

**General information:** prevent from penetrating soil, bodies of water and canalisation

## 13. DISPOSAL CONSIDERATIONS

**Disposal / Product (ingredients, preparation, remaining quantities):**

**Recommendation:** observe local regulations

**EC waste disposal key:** (recommendations based on the probable use of the product; where applicable different waste disposal key numbers may be assigned)

070704 other organic solvents, washing liquids and mother lye

160501 industrial gases in pressure tanks, liquefied gas containers and industrial aerosols (incl. halones)

200122 aerosols

**Disposal of contaminated packaging:**

**Recommendation:** observe local regulations

**Waste disposal key:** 150111/150104 (empty cans/metal)

## 14. TRANSPORT REGULATION

### 14.1 Land transport ADR/RID and GGVS/GGVE (transnational / inland)

**Class/Number/Code:** 2/5/f

**UN Number:** 1950

**Packing group:** N/A

**Information regarding transportation documents and packaging:** N/A

**Volume or mass:** 75 ml

75 ml (max. 30 kg gross)

**Nomenclature:** UN 1950 compressed gas cylinder

UN 1950 compressed gas cylinder

**Hazard label:** 2.1

N/A

**Packing code or instructions:** P204

P204 / LQ2

### 14.2 Sea transport IMDG/GGVSee

**Class/Number/Code:** 2

**UN Number:** 1950

**Packing group:** N/A

**EMS No.:** F-D, S-U

**Marine pollutant:** N/A

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**Correct technical nomenclature:** aerosols, limited quantities**Hazard release:** compressed gas**14.3 Air transport ICAO-TI and IATA-DGR****Class/Number/Code:** 2.1**UN Number:** 1950**Packing group:** N/A**Correct technical nomenclature:** aerosols, limited quantities**Hazard marking:** flammable gas**Packing instruction no.:** passenger: 203  
cargo: 203

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**15. REGULATORY INFORMATION****15.1 Regulations: EC Guidelines**

The product is classified and marked according to the GEFSTOFFV regulation / EC guidelines (hazardous goods regulation)

**Specific markings of certain preparations:**

Pressurised container. Protect from sunlight and do not expose to temperatures above 50 °C. Do not open forcefully, pierce or burn. Do not spray on a naked flame or any incandescent material. If possible use outdoors or in well-ventilated rooms.

**Hazard classification:** F + extremely flammable. Formation of explosive/flammable vapour-air mixtures is possible. Explosion hazard if exposed to high temperatures.

**R-Phrases:**

R12 Extremely flammable

**S-Phrases:**

S2 / 9 / 16 Keep out of the reach of children. Store containers in a well-ventilated area. Keep away from sources of ignition. Do not smoke.

**15.2 National Guidelines:****Information regarding limitation of employment:**

observe 15b GefStoffV (hazardous material regulation): limited employment for juveniles

**Statutory order on hazardous incidents (for D only):** Annex II, No. 1 Flammable gases**Regulations regarding flammable liquids (for D only):** N/A**Technical instructions on air quality (for D only):** III, paragraph 3.1.7**Water hazard class:** WHC: 1 (VwVwS – 17.05.99)**Other Regulations:**

Observe regulation scope TRG/TRGS: TRG 300 combustible aerosols.

Observe regulation for the prevention of industrial accidents.

Observe basic principles of occupational medicine.

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**16. OTHER INFORMATION**

These data are based on our current knowledge and do not constitute a guarantee for any specific product features. Statutory provisions must be observed at one's own responsibility.