

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

### 1.1. Product identifier

HEXAQUART forte

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Disinfectant for surfaces

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Company name: B. Braun Medical AG  
Street: Seesatz 17  
Place: CH-6204 Sempach  
Responsible Department: Telephone: +41 (0) 58 / 258 50 00  
E-Mail: info.bbmch@bbraun.com  
Responsible for the safety data sheet: sds@gbk-ingelheim.de

#### Supplier

Company name: B. Braun Melsungen AG  
Street: Carl-Braun-Straße 1  
Place: D-34212 Melsungen  
Responsible Department: Zentrale Service-Bereiche / Logistik und Supply Chain  
Telephone: +49 (0) 5661 / 71-4422  
E-Mail: logistics.service@bbraun.com

**1.4. Emergency telephone number:** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24 24

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture according to 1272/2008/EC

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Didecyldimethylammonium chloride

Nitilotriacetic acid trisodiumsalt

Fatty amine polyethylene glycol ether

Signal word:

Danger

Pictograms:



#### Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

#### Precautionary statements

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

**HEXAQUART forte**

Revision date: 01.06.2015

Revision No: 1,1

Product code: 00056-0233

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
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.  
P273 Avoid release to the environment.

**2.3. Other hazards**

Not known.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Concentrate with quaternary ammonium compounds and non-ionic surfactants

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides			20 %
	270-325-2		01-2119965180-41	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1; H302 H314 H400			
7173-51-5	Didecyldimethylammonium chloride			7,9 %
	230-525-2	612-131-00-6	01-2119945987-15	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10); H302 H314 H400			
5064-31-3	Nitrilotriacetic acid trisodiumsalt			< 5 %
	225-768-6	607-620-00-6	01-2119519239-36	
	Carc. 2, Acute Tox. 4, Eye Irrit. 2; H351 H302 H319			
67-63-0	Propan-2-ol			< 5 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
31017-83-1	Fatty amine polyethylene glycol ether			< 5 %
	931-964-9			
	Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1; H302 H318 H400			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately.

**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off immediately with soap and plenty of water.  
Treat subsequently with skin cream.  
Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

**After ingestion**

Do not provoke vomiting. Consult physician. Attention in case of vomiting - acute danger of suffocating, produced by foaming ingredients. Rinse mouth. Make drink some glasses of water. The decision

whether to provoke vomiting is to be taken by a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

The product causes burns of eyes, skin and mucous membranes.  
Harmful if swallowed.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

---

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

**Unsuitable extinguishing media**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Chlorine compounds.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit.

**Additional information**

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

---

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.

Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Use personal protective clothing.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

**6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

**6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Keep container tightly closed.

Keep a good ventilation and air-exhaust at the place of work.

Avoid contact with eyes, skin or mucous membrane.

**Advice on protection against fire and explosion**

No special protective measures against fire required.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep containers tightly closed in a dry, well-ventilated place.

**Advice on storage compatibility**

Incompatible with strong acids and oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

Disinfectant for surfaces

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

**8.2. Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Take off immediately all contaminated clothing.

Avoid contact with eyes, skin or mucous membrane.

**Eye/face protection**

Safety goggles with side protection (EN 166).

Eye wash bottle with pure water (EN 15154).

**Hand protection**

Protective gloves resistant to chemicals made off natural-rubber latex, minimum coat thickness 0.6 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Lapren 706> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing (EN 368).

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state: Liquid  
Colour: Yellowish  
Odour: characteristic

pH-Value (at 20 °C): 9 - 10 Concentrate

**Changes in the physical state**

Initial boiling point and boiling range: approx. 100 °C  
Flash point: n.a.  
Lower explosion limits: n.a.  
Upper explosion limits:  
Ignition temperature: n.a.  
Density (at 20 °C): approx. 1,02 g/cm<sup>3</sup>  
Water solubility: Completely miscible  
(at 20 °C)

Solvent content: < 5 %

**9.2. Other information**

No data available.

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with acids and strong oxidizing agents.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

Strong acids and oxidizing agents

**10.6. Hazardous decomposition products**

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Chlorine compounds.

---

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

Harmful if swallowed.

No toxicological data available.

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience**

**Other observations**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

---

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecological data are not available.

Very toxic to aquatic organisms.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides [M = 10]

EC50/Daphnia magna/48 h = 0,025 mg/l [EPA-FIFRA]

EC50/Selenastrum capricornutum/72 h = 0,049 mg/l [OECD TG 201]

Didecyldimethylammonium chloride [M = 10]

LC50/Pimephales promelas/96 h = 0,19 mg/l [US-EPA]

ErC50/Pseudokirchneriella subcapitata/96 h = 0,026 mg/l [OECD TG 201]

**HEXAQUART forte**

Revision date: 01.06.2015

Revision No: 1,1

Product code: 00056-0233

EC50/Daphnia magna/48 h = 0,062 mg/l [EPA-FIFRA]

**12.2. Persistence and degradability**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
7173-51-5	Didecyldimethylammonium chloride				
	modif. Sturm-test		72 %	28	
	Readily biodegradable.				

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT substance.

**12.6. Other adverse effects**

Hazardous water pollutant.

**Further information**

This concentrate is not allowed to be released into the sewerage, surface water or groundwater.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

**Waste disposal number of waste from residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

UN 1903

**14.2. UN proper shipping name:**

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Classification code:

C9

Limited quantity:

5 L / 30 kg

Excepted quantity:

E1

Transport category:

3

**HEXAQUART forte**

Revision date: 01.06.2015

Revision No: 1,1

Product code: 00056-0233

Hazard No: 80

Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1903

**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Classification code: C9

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number:** UN 1903

**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Marine pollutant: Yes

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

EmS: F-A, S-B

**Air transport (ICAO)**

**14.1. UN number:** UN 1903

**14.2. UN proper shipping name:** DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, Solution)

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

Hazard label: 8



Limited quantity Passenger: 1 L

Passenger LQ: Y841

Excepted quantity: E1

IATA-packing instructions - Passenger: 852

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 856

IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



#### **14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

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

The transport takes place only in approved and appropriate packaging.

---

### **SECTION 15: Regulatory information**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **EU regulatory information**

2004/42/EC (VOC): < 5 %

##### **Additional information**

Regulation (EC) No 648/2004 (Regulation on detergents):

Non-ionic surfactants 5 - 15%; NTA < 5%

Ingredients subject to the labelling obligation according to SCCP: -

##### **National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 2 - water contaminating

#### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

---

### **SECTION 16: Other information**

#### **Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

#### **Relevant H and EUH statements (number and full text)**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

#### **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the



**Safety Data Sheet** according to Regulation (EC) No 1907/2006

B. Braun Medical AG

**HEXAQUART forte**

Revision date: 01.06.2015

Revision No: 1,1

Product code: 00056-0233

---

present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

---

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*