

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

· **Trade name:** Hama Contact cleaner (Aerosol 400ml (520))

· **Article number:** xxx84176

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

No further relevant information available.

**Application of the substance / the mixture**

Cleaning material/ Detergent

According to trade name/product specification

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Hama GmbH & Co KG

D-86652 Monheim

**Further information obtainable from:**

Department: Quality Assurance

QS InfoSDB@hama.de

+49 9091 502-0

**1.4 Emergency telephone number:**

+49 9091 502-6400 (Hama)

+49 89 19240 (toxin emergency call in Munich)

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**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** GHS02, GHS05, GHS07, GHS08

· **Signal word** Danger

**Hazard-determining components of labelling:**

butanol

propan-2-ol

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

White mineral oil (petroleum)

(Contd. on page 2)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**

(Contd. of page 1)

· **Hazard statements**

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H336 May cause drowsiness or dizziness.  
 H304 May be fatal if swallowed and enters airways.  
 H412 Harmful 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.  
 P271 Use only outdoors or in a well-ventilated area.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P251 Do not pierce or burn, even after use.  
 P211 Do not spray on an open flame or other ignition source.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P331 Do NOT induce vomiting.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P405 Store locked up.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Recommended additional labelling:**

- Observe the remarks of the device manufacturer.  
 Before cleaning, disconnect device from the power supply and allow to cool.

· **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 characterization: Mixtures**

- **Description:** Mixture of substances listed below with additions in nonhazardous concentrations.

· **Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1	butanol ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	15-<20%
EC number: 920-750-0	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	10-<15%
CAS: 8042-47-5 EINECS: 232-455-8	White mineral oil (petroleum) ⚠ Asp. Tox. 1, H304	≤10%
EC number: 921-024-6	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	3-<10%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide ⚠ Press. Gas, H280	1-≤2,5%
CAS: 110-82-7 EINECS: 203-806-2 Index number: 601-017-00-1	cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	0,1-<0,25%
CAS: 110-54-3 EINECS: 203-777-6 Index number: 601-037-00-0	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	0,1-<0,3%

(Contd. on page 3)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**

(Contd. of page 2)

**· Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons

15 - 30%

### SECTION 4: First aid measures

**· 4.1 Description of first aid measures**

**· General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

In case of unconsciousness place patient stably in side position for transportation.

**· After inhalation:** Supply fresh air; consult doctor in case of complaints.

**· After skin contact:**

Immediately 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 a doctor.

**· After swallowing:** Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

**· 5.1 Extinguishing media**

**· Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Can form explosive gas-air mixtures.

During heating or in case of fire poisonous gases are produced.

Carbon monoxide and carbon dioxide

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**· 5.3 Advice for firefighters**

**· Protective equipment:**

Use fire extinguishing methods suitable to surrounding conditions.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

**· Additional information**

Danger of receptacles bursting because of high vapour pressure when heated.

Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

**· 6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ 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).

Pick up mechanically.

Water, if necessary together with cleansing agents.

Ensure adequate ventilation.

**· 6.4 Reference to other sections**

See Section 7 for information on safe handling.

(Contd. on page 4)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

(Contd. of page 3)

**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

See Section 8 for information on personal protection equipment.  
Use only in accordance with intended purpose.  
Use only in well ventilated areas.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Do not inhale gases / fumes / aerosols.  
The usual precautionary measures are to be adhered to when handling chemicals.

**· Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect from heat.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.  
See section 5.

**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.  
Observe official regulations on storing packagings with pressurized containers.  
Storage and clustering must be made according to official regulations.

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

Storage and clustering must be made according to official regulations.  
See section 10.

**· Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Store under lock and key and out of the reach of children.

**· Storage class:**

TRGS 510  
2B

**· 7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****· Additional information about design of technical facilities:** No further data; see item 7.**· 8.1 Control parameters****· Ingredients with limit values that require monitoring at the workplace:****124-38-9 carbon dioxide**IOELV Long-term value: 9000 mg/m<sup>3</sup>, 5000 ppm**· Additional information:** The lists valid during the making were used as basis.**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Parameters refer to the product and its intended usage (usage/tradename - point 1 MSDS).  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.

(Contd. on page 5)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**

(Contd. of page 4)

**· Respiratory protection:**

Not necessary if room is well-ventilated.

No special precautions are necessary if used correctly.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

**· Protection of hands:**

No special precautions are necessary if used correctly.

If exposure not avoidable:



Protective gloves

DIN/EN 374

**· Material of gloves** Nitrile rubber, NBR**· Penetration time of glove material**

Not required.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**

Tightly sealed goggles

**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless
<b>· Odour:</b>	Alcohol-like
<b>· Odour threshold:</b>	Not determined.

**· pH-value:** Not applicable.**· Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	> 82 °C

**· Flash point:** > 13 °C**· Flammability (solid, gaseous):** Not determined.**· Ignition temperature:****Decomposition temperature:** Not determined.**· Self-igniting:** Product is not selfigniting.**· Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**· Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

**· Vapour pressure:** Not determined.**· Density at 20 °C:** 0,774 g/cm<sup>3</sup>**· Relative density** Not determined.**· Vapour density** Not determined.

(Contd. on page 6)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**

(Contd. of page 5)

· <b>Evaporation rate</b>	Not applicable.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	76,0 %
<b>VOC (EC)</b>	68,00 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Forms explosive gas mixture with air.
- **10.4 Conditions to avoid** See Section 7 for information on safe handling.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** See section 5.
- **Additional information:** See Section 7 for information on safe handling.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

**110-82-7 cyclohexane**

Oral	LD50	12705 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is a preparation, for which no experimentally determined toxicity data is available.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Undetermined.
- **12.2 Persistence and degradability** The single components are biodegradable
- **12.3 Bioaccumulative potential** Undetermined.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Remark:** Undetermined.

(Contd. on page 7)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**



(Contd. of page 6)

- **Additional ecological information:**
- **General notes:**
  - At present there are no ecotoxicological assessments.
  - Avoid transfer into the environment.
  - Harmful to aquatic organisms
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  - Do not allow product to reach ground water, water course or sewage system.
- **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**
  - Disposal must be made according to official regulations.
  - Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** See section 6.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 2 5F Gases.
- **Label** 2.1
- **IMDG, IATA**
- 
- **Class** 2.1
- **Label** 2.1
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Gases.

(Contd. on page 8)

**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**

(Contd. of page 7)

· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-D,S-U
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN1950, AEROSOLS, 2.1

**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 must be observed.

· **Other regulations, limitations and prohibitive regulations**

98/2013/EU

1272/2008/EC (CLP)

1907/2006/EC (REACH)

Annex XVII

648/2004/EC (Detergents)

850/2004/EC (POP)

2013/10/EU (Aerosols)

As the case may be, additional, national legal provisions must be observed.

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

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 9)



**Trade name: Hama Contact cleaner (Aerosol 400ml (520))**

(Contd. of page 8)

· **Department issuing MSDS:** Department: Quality Assurance· **Contact:** Field: Chemistry· **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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Liquefied gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **\* Data compared to the previous version altered.**