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

- **Product identifier**
  - **Trade name:** Hama Cleaning Liquid (20 ml)
  - **Article number:** xxx44708

- **Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.

- **Application of the substance / the preparation**
  Cleaning material/ Detergent

- **According to trade name/product specification**

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    Hama GmbH & Co. KG
    Dresdner Str. 9
    D-86653 Monheim

  - **Further information obtainable from:**
    Department: Quality Assurance
    QS InfoSDB@hama.de
    +49 9091 502-0

  - **Emergency telephone number:**
    +49 9091 502-6400 (Hama)
    +49 89 19240 (toxin emergency call in Munich)

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# 2 Hazards identification

- **Classification of the substance or mixture**

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  
  - **Xi; Irritant**
  - R36: Irritating to eyes.
  - R10-67: Flammable. Vapours may cause drowsiness and dizziness.

- **Information concerning particular hazards for human and environment:**
  Keep out of the reach of children.

- **Classification system:**
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**
  The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**
  Xi Irritant

- **Risk phrases:**
  10 Flammable.
  36 Irritating to eyes.
  67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**
  2 Keep out of the reach of children.
  46 If swallowed, seek medical advice immediately and show this container or label.

- **Recommended additional labelling:**
  Disposal must be made according to official regulations.
  Observe the remarks of the device manufacturer.

- **Other hazards**

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.

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(Contd. on page 2)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.09.2013
Version number 2
Revision: 11.09.2013

Trade name: Hama Cleaning Liquid (20 ml)

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

### Dangerous components:

<table>
<thead>
<tr>
<th>CAS: 67-63-0</th>
<th>propan-2-ol</th>
<th>Xi R36; F R11</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-661-7</td>
<td>25-50%</td>
<td>R67</td>
</tr>
<tr>
<td>Index number: 603-117-00-0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**

  - **General information:**
    Take affected persons out into the fresh air.
    Immediately remove any clothing soiled by the product.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:**
    Immediately rinse with water.
    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.
    Rinse out mouth and then drink plenty of water.
  - **Information for doctor:**
    No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**
    CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
    Use fire extinguishing methods suitable to surrounding conditions.
  - **Special hazards arising from the substance or mixture**
    Carbon monoxide and carbon dioxide
    Under certain fire conditions, traces of other toxic gases cannot be excluded.
  - **Advice for firefighters**
  - **Protective equipment:**
    Wear self-contained respiratory protective device.
    Use fire extinguishing methods suitable to surrounding conditions.
  - **Additional information**
    Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation

(Contd. on page 3)
Trade name: Hama Cleaning Liquid (20 ml)

- Keep away from ignition sources.
  - **Environmental precautions:**
    - Do not allow to penetrate the ground/soil.
    - Do not allow to enter sewers/surface or ground water.
  - **Methods and material for containment and cleaning up:**
    - Dilute with plenty water.
    - Pick up mechanically.
    - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
    - Ensure adequate ventilation.
  - **Reference to other sections**
    - See Section 7 for information on safe handling.
    - See Section 8 for information on personal protection equipment.
    - See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**
    - No special precautions are necessary if used correctly.
    - See Section 8 for information on personal protection equipment.
    - Avoid splashes or spray in enclosed areas.
  - **Information about fire - and explosion protection:**
    - See section 5.
    - Keep ignition sources away - Do not smoke.
    - Protect against electrostatic charges.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**
      - Storage and clustering must be made according to official regulations.
      - Store only in the original receptacle.
    - **Information about storage in one common storage facility:**
      - Storage and clustering must be made according to official regulations.
      - Due to regional regulations, follow VCI guidance on clustering of chemicals.
    - **Further information about storage conditions:**
      - Store receptacle in a well ventilated area.
      - Store in cool, dry conditions in well sealed receptacles.
      - Protect from heat and direct sunlight.
  - **Storage class:** 3 (VCI)
  - **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
  - **Ingredients with limit values that require monitoring at the workplace:**
    - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - **Additional information:** The lists valid during the making were used as basis.
- **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.
      - Do not inhale gases/fumes/aerosols.
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing
      - Wash hands before breaks and at the end of work.

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Avoid contact with the eyes and skin.

- **Respiratory protection:**
  No special precautions are necessary if used correctly.
  Not necessary if room is well-ventilated.

- **Protection of hands:**
  No special precautions are necessary if used correctly.
  If prolonged exposure not avoidable:
  Solvent resistant gloves
  DIN/EN 374
  The product is a preparation, no special tests were accomplished.
  The recommendation of the glove material is based on the existing information to the ingredients.

- **Material of gloves:**
  Nitrile rubber, NBR

- **Penetration time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**
  No special precautions are necessary if used correctly.
  Goggles recommended during refilling

Tightly sealed goggles

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
  **General Information**
  Parameter, marked with * refer to:
  Danger causing compound in the preparation (see point 3 MSDS)

- **Appearance:**
  **Form:**
  Liquid
  **Colour:**
  Colourless
  **Odour:**
  Alcohol-like
  **Odour threshold:**
  Not determined.

- **pH-value at 20 °C:**
  6.2

- **Change in condition**
  **Melting point/Melting range:**
  Undetermined.
  **Boiling point/Boiling range:**
  > 82 °C

- **Flash point:**
  22 °C

- **Flammability (solid, gaseous):**
  Not applicable.

- **Ignition temperature:**
  **Decomposition temperature:**
  Not determined.

- **Self-igniting:**
  Product is not self-igniting.

- **Danger of explosion:**
  Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**
  **Lower:**
  2.0 Vol % (*)
  **Upper:**
  12.0 Vol % (*)

- **Vapour pressure at 20 °C:**
  43 hPa (*)

- **Density at 20 °C:**
  0.8925 g/cm³

- **Relative density**
  Not determined.

- **Vapour density**
  Not determined.
Trade name: Hama Cleaning Liquid (20 ml)

37.1.2 · Evaporation rate
Not determined.

· Solubility in / Miscibility with water:
  Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· Solvent content:
  Organic solvents: 50.0 %
  Water: 50.0 %

· Other information
  No further relevant information available.

10 Stability and reactivity

· Reactivity
  · Chemical stability
  · Thermal decomposition / conditions to be avoided:
    No decomposition if used and stored according to specifications.
  · Possibility of hazardous reactions Reacts with strong acids and oxidizing agents.
  · Conditions to avoid
    No further relevant information available.
  · Incompatible materials: No further relevant information available.
  · Hazardous decomposition products: See section 5.

11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values relevant for classification:
      67-63-0 propan-2-ol
      Oral LD50 5045 mg/kg (rat)
      Dermal LD50 12800 mg/kg (rabbit)
      Inhalative LC50/4 h 30 mg/l (rat)

    · Primary irritant effect:
      · on the skin: Irritation possible.
      · on the eye: Irritating effect.
    · Sensitization: No sensitizing effects known.
    · Additional toxicological information:
      The product is a preparation, for which no experimentally determined toxicity data is available.
      Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
      When used and handled according to specifications, the product does not have any harmful effects to our experience and
      the information provided to us.

12 Ecological information

· Toxicity
  · Aquatic toxicity: Undetermined.
  · Persistence and degradability Undetermined.
  · Behaviour in environmental systems:
  · Bioaccumulative potential Undetermined.
Trade name: Hama Cleaning Liquid (20 ml)

- **Mobility in soil**: No further relevant information available.
- **Additional ecological information**:
- **General notes**:
  - At present there are no ecotoxicological assessments.
  - The evaluation was performed in accordance with the calculation procedure of the preparation guideline.
  - Avoid transfer into the environment.
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly 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**: Disposal must be made according to official regulations.
- **Uncleaned packaging**:
  - **Recommendation**: Disposal must be made according to official regulations.
- **Recommended cleansing agents**:
  - See section 6.
  - Water, if necessary together with cleansing agents.

### 14 Transport information

- **UN-Number**
  - ADR, IMDG, IATA
  - UN1219
- **UN proper shipping name**
  - ADR
  - IMDG, IATA
  - 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), solution
- **Transport hazard class(es)**
  - **ADR**
    - **Class**: 3 (F1) Flammable liquids.
    - **Label**: 3
    - **IMDG, IATA**
      - **Class**: 3 Flammable liquids.
      - **Label**: 3
  - **Packing group**
    - **ADR, IMDG, IATA**: II
- **Environmental hazards**:
  - **Marine pollutant**: No
- **Special precautions for user**
  - Warning: Flammable liquids.
37.1.2

- **Danger code (Kemler):** 33
- **EMS Number:** F-E,S-D

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

- Not applicable.

**Transport/Additional information:**

- **ADR**
- **Limited quantities (LQ):** 1L
- **Transport category:** 2
- **Tunnel restriction code:** D/E

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**15 Regulatory information**

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

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**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.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - R11 Highly flammable.
  - R36 Irritating to eyes.
  - R67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS:** Department: Quality Assurance
- **Contact:** Field: Chemistry
- * Data compared to the previous version altered.