ad-Arztbedarf GmbH
http://www.ad-arztbedarf.de

# Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.07.2014 Version number 2 Revision: 10.07.2014

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

· **1.1 Product identifier**

· **Trade name: FormalSpray**
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Application of the substance / the preparation:** Disinfectant

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
ad-Arztbedarf GmbH
Gottlieb-Daimler-Straße 15
D-50226 Frechen

Tel.: +49-2234-956760
Fax: +49-2234-956762
e-mail: service@ad-arztbedarf.de

· **Further information obtainable from:** Abteilung Produktsicherheit
· **1.4 Emergency telephone number:**
Giftinformationszentrum Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein ( GIZ Nord ),
Georg August Universität Göttingen, Zentrum Pharmakologie und Toxikologie,
Robert Koch Straße 40,
37075 Göttingen
Tel.: 0551/192 40
Fax: 0551/383 1881
E-Mail: giznord@giz-nord.de
Notrufnummer: +49-551-19240

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

R10: Flammable.
· **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
· **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **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
· **Signal word** Warning
· **Hazard statements**
H226 Flammable liquid and vapour.
· **Precautionary statements**

| | |
|---|---|
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P271 | Use only outdoors or in a well-ventilated area. |

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| | |
|---|---|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P370+P378 | In case of fire: Use for extinction: CO2, powder or water spray. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· **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 nonhazardous additions.

· **Dangerous components:**

| | | | |
|---|---|---|---|
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Index number: 603-002-00-5 | ethanol | F R11<br>Flam. Liq. 2, H225 | 25-50% |

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

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **After inhalation:** Supply fresh air; consult doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.
· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:** Inform doctor. Do not give milk or fatty oils.
· **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:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
· **5.3 Advice for firefighters**
· **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Dilute with plenty of water.
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).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

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· **6.4 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.*

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.*
*Prevent formation of aerosols.*
· **Information about fire - and explosion protection:**
*Keep ignition sources away - Do not smoke.*
*Protect against electrostatic charges.*

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** *No special requirements.*
· **Information about storage in one common storage facility:** *Not required.*
· **Further information about storage conditions:** *Keep container tightly sealed.*
· **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:**
*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.*

· **8.2 Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:** *Do not inhale gases / fumes / aerosols.*
· **Respiratory protection:**
*Not necessary if room is well-ventilated.*
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*
· **Protection of hands:** *Not required.*
· **Material of gloves**
*Nitrile rubber, NBR*
*Natural rubber, NR*
*Butyl rubber, BR*
*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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*
· **Penetration time of glove material**
*Nitril: > 0,4 mm / 480 Min.*
*Butyl: > 0,7 mm / 480 Min.*
*The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
· **Eye protection:**
*Goggles recommended during refilling*

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*Tightly sealed goggles*

· **Body protection:** *Protective work clothing*

## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · **9.1 Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Appearance:** | |
| **Form:** | *Fluid* |
| **Colour:** | *Colourless* |
| · **Odour:** | *Characteristic* |
| · **Odour threshold:** | *Not determined.* |
| · **pH-value at 20 °C:** | *7* |
| · **Change in condition** | |
| **Melting point/Melting range:** | *Undetermined.* |
| **Boiling point/Boiling range:** | *85 °C* |
| · **Flash point:** | *21 - 55 °C* |
| · **Flammability (solid, gaseous):** | *Not applicable.* |
| · **Ignition temperature:** | *425 °C* |
| · **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:** | |
| **Lower:** | *3,5 Vol %* |
| **Upper:** | *15,0 Vol %* |
| · **Vapour pressure at 20 °C:** | *60 hPa* |
| · **Density at 20 °C:** | *0,93 g/cm³* |
| · **Relative density** | *Not determined.* |
| · **Vapour density** | *Not determined.* |
| · **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:** | *44,4 %* |
| **Water:** | *55,5 %* |
| **VOC (EC)** | *44,37 %* |
| · **9.2 Other information** | *No further relevant information available.* |

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## SECTION 10: Stability and reactivity

· **10.1 Reactivity**
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** No further relevant information available.
· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.
· **Sensitization:** No sensitizing effects known.

## SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it 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**
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:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1993

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| | |
|---|---|
| · **14.2 UN proper shipping name** | |
| · **ADR** | 1993 FLAMMABLE LIQUID, N.O.S. (ethanol, didecyldimethylammonium chloride) |
| · **IMDG, IATA** | FLAMMABLE LIQUID, N.O.S. (ethanol, didecyldimethylammonium chloride) |
| · **14.3 Transport hazard class(es)** | |
| · **ADR** | |
| | |
| · **Class** | 3 (F1) Flammable liquids. |
| · **Label** | 3 |
| · **IMDG, IATA** | |
| | |
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |
| · **14.4 Packing group** | |
| · **ADR, IMDG, IATA** | III |
| · **14.5 Environmental hazards:** | |
| · **Marine pollutant:** | No |
| · **14.6 Special precautions for user** | Warning: Flammable liquids. |
| · **Danger code (Kemler):** | 30 |
| · **EMS Number:** | F-E,S-E |
| · **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** | Not applicable. |
| · **Transport/Additional information:** | |
| · **ADR** | |
| · **Limited quantities (LQ)** | 5L |
| · **Excepted quantities (EQ)** | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · **Transport category** | 3 |
| · **Tunnel restriction code** | D/E |
| · **IMDG** | |
| · **Limited quantities (LQ)** | 5L |
| · **Excepted quantities (EQ)** | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · **UN "Model Regulation":** | UN1993, FLAMMABLE LIQUID, N.O.S. (ethanol, didecyldimethylammonium chloride), 3, III |

## SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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· **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.

R11 Highly flammable.

· **Department issuing MSDS:** Abteilung Produktsicherheit
· **Contact:** Herr Gülicher
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organization
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)
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3