

according to Regulation (EC) No 1907/2006

Adhesive Spray KK 100 Economy

Revision date: 27.10.2020

Product code: VCSO-GD-020

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

1.1. Product identifier

Adhesive Spray KK 100 Economy

Further trade names

GUNOLD KK 100 ECONOMY Line, Sprühzeitkleber, Art-Nr: 495
GUNOLD KK 100 ECONOMY Line, Sprühzeitkleber, Art-Nr: 495A
SULKY® KK 100 ECONOMY Line, Sprühzeitkleber, Art-Nr: 3000495
SULKY® KK 100 ECONOMY Line, Sprühzeitkleber, Art-Nr: 3000495A

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

Use of the substance/mixture

adhesives

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---------------------------------|----------------------------------|
| Company name: | GUNOLD GmbH | |
| Street: | Obernburger Straße 125 | |
| Place: | D-63811 Stockstadt | |
| Telephone: | +49 (0)6027 - 2 00 80 | Telefax: +49 (0)6027 - 37 72 |
| e-mail: | service@gunold.de | |
| Contact person: | Christoph Gunold | Telephone: +49 (0)6027 - 2 00 80 |
| e-mail: | c.gunold@gunold.de | |
| Internet: | www.gunold.de | |
| Responsible Department: | Quality Control and Environment | |

1.4. Emergency telephone number:

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Aerosol: Aerosol 1
Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.

2.2. Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

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.
P211 Do not spray on an open flame or other ignition source.

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| | |
|-----------|---|
| P251 | Do not pierce or burn, even after use. |
| P261 | Avoid breathing Aerosol. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Do not discard content/container with household waste and forward for disposal according to regional/national guidelines. |

2.3. Other hazards

Avoid to inhale directly and to spray into your eyes. Prolonged/repetitive product contact may cause mucosa and skin irritation like redness, blistering, dermatitis etc.

In use may form flammable/explosive vapour-air mixture. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Even after use and until complete evaporation of the flammable components, there is still a danger of an explosive steam-air mixture forming.

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|----------|--|--------------|------------------|------------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 115-10-6 | dimethyl ether | | | >=25-<30 % |
| | 204-065-8 | 603-019-00-8 | 01-2119472128-37 | |
| | Flam. Gas 1, Compressed gas; H220 H280 | | | |
| 67-64-1 | acetone; propan-2-one; propanone | | | >=1-<1,5 % |
| | 200-662-2 | 606-001-00-8 | 01-2119471330-49 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| | Hydrocarbons, C6, isoalkanes, <5% n-hexane | | | >=1-<1,5 % |
| | 931-254-9 | | 01-2119484651-34 | |
| | Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 | | | |
| 78-78-4 | isopentane; 2-methylbutane | | | >=1-<1,5 % |
| | 201-142-8 | 601-085-00-2 | 01-2119475602-38 | |
| | Flam. Liq. 1, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H224 H336 H304 H411 EUH066 | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of troubles or persistent symptoms, consult an doctor/physician.

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

In case of irregular breathing or respiratory arrest, perform artificial respiration.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a

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physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, consult a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Call a physician immediately. Do NOT induce vomiting.

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

Prolonged/repetitive product contact may cause mucosa and skin irritation like redness, blistering, dermatitis etc.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam. Water fog. Carbon dioxide (CO₂).

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Nitrogen oxides (NO_x).
Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment. Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of product being released into lakes, rivers or the drainage system, appropriate authorities must be informed.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Personal protection equipment: see section 8
Handling and storage: see section 7
For waste disposal see section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

Consider the usual precautions for handling chemicals. Ensure adequate ventilation. Avoid contact with skin, eyes and clothes.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.

Further information on handling

When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Ensure adequate ventilation of the storage area.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect from sunlight and heat sources. Avoid ignition sources.

Recommended storage temperature: 15 - 30°C

7.3. Specific end use(s)

adhesives

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|------------------|------|-------------------|-----------|---------------|--------|
| 67-64-1 | Acetone | 500 | 1210 | | TWA (8 h) | WEL |
| | | 1500 | 3620 | | STEL (15 min) | WEL |
| 106-97-8 | Butane | 600 | 1450 | | TWA (8 h) | WEL |
| | | 750 | 1810 | | STEL (15 min) | WEL |
| 109-87-5 | Dimethoxymethane | 1000 | 3160 | | TWA (8 h) | WEL |
| | | 1250 | 3950 | | STEL (15 min) | WEL |
| 115-10-6 | Dimethyl ether | 400 | 766 | | TWA (8 h) | WEL |
| | | 500 | 958 | | STEL (15 min) | WEL |
| 78-78-4 | Isopentane | 600 | 1800 | | TWA (8 h) | WEL |

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DNEL/DMEL values

| CAS No | Substance | | |
|--------------------------|--|----------|------------------------|
| DNEL type | Exposure route | Effect | Value |
| 67-64-1 | acetone; propan-2-one; propanone | | |
| Worker DNEL, acute | inhalation | local | 2420 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | 186 mg/kg bw/day |
| Worker DNEL, long-term | inhalation | systemic | 1210 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | 62 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | 200 mg/m ³ |
| Consumer DNEL, long-term | oral | systemic | 62 mg/kg bw/day |
| | Hydrocarbons, C6, isoalkanes, <5% n-hexane | | |
| Consumer DNEL, long-term | dermal | | 1377 mg/kg bw/day |
| Worker DNEL, long-term | dermal | | 13964 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | | 1137 mg/m ³ |
| Worker DNEL, long-term | inhalation | | 5306 mg/m ³ |
| Consumer DNEL, long-term | oral | | 1301 mg/kg bw/day |

PNEC values

| CAS No | Substance | |
|--|----------------------------------|--|
| Environmental compartment | Value | |
| 67-64-1 | acetone; propan-2-one; propanone | |
| Freshwater | 10,6 mg/l | |
| Marine water | 1,06 mg/l | |
| Freshwater sediment | 30,4 mg/kg | |
| Marine sediment | 3,04 mg/kg | |
| Micro-organisms in sewage treatment plants (STP) | 100 mg/l | |
| Soil | 29,5 mg/kg | |

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Chemical resistant safety gloves, e.g. made out of nitrile.
Recommendation splash contact: Protection index 2, penetration time >30 min, e.g. butyl rubber 0,4 mm.

Recommendation direct, prolonged contact: Protective index 6, penetration time > 480 min, e.g. nitrile rubber 0.4 mm

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Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Not required if used properly.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: various
Odour: characteristic

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: No data available
Initial boiling point and boiling range: No data available
Flash point: <0 °C

Flammability

Solid: No data available
Gas: No data available

Explosive properties

No data available

Lower explosion limits: No data available
Upper explosion limits: No data available
Ignition temperature: No data available

Auto-ignition temperature

Solid: No data available
Gas: >300 °C

Decomposition temperature: No data available

Oxidizing properties

No data available

Vapour pressure: 3000-5000 hPa

Density: No data available

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

No data available

Partition coefficient: No data available

Viscosity / dynamic: not applicable DIN 53018

Vapour density: 2

Evaporation rate: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

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10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable when stored and handled appropriately.

10.3. Possibility of hazardous reactions

No dangerous reactions to be expected if used properly.

Keep away from strong acids, strong bases and strong oxidisers to avoid exothermic reactions.

10.4. Conditions to avoid

high temperatures, Oxidizing agents.

10.5. Incompatible materials

Oxidising agent, strong. Reducing agent, strong. Acid, concentrated. Alkali (lye), concentrated.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

| CAS No | Chemical name | | | | |
|----------|--|------------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 115-10-6 | dimethyl ether | | | | |
| | inhalation (4 h) vapour | LC50 308 mg/l | Rat | | |
| 67-64-1 | acetone; propan-2-one; propanone | | | | |
| | oral | LD50 5800 mg/kg | Rat | RTECS | |
| | dermal | LD50 20000 mg/kg | Rabbit | IUCLID | |
| | inhalation (4 h) vapour | LC50 76 mg/l | Rat | | |
| | Hydrocarbons, C6, isoalkanes, <5% n-hexane | | | | |
| | oral | LD50 5840 mg/kg | Rat | | |
| | dermal | LD50 2920 mg/kg | Rabbit | | |
| | inhalation (4 h) vapour | LC50 25,2 mg/l | Rat | | |

Irritation and corrosivity

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

Prolonged/repetitive product contact may cause mucosa and skin irritation like redness, blistering, dermatitis etc.

Sensitising effects

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.

STOT-single exposure

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

STOT-repeated exposure

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

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Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Do not allow to enter into surface water or drains.

| CAS No | Chemical name | | | | | |
|---------|--|--------------|-----------|---------|--|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 67-64-1 | acetone; propan-2-one; propanone | | | | | |
| | Acute fish toxicity | LC50 mg/l | 5540 | 96 h | Onchorhynchus mykiss | |
| | Acute crustacea toxicity | EC50 mg/l | 6100 | 48 h | Daphnia magna | |
| | Hydrocarbons, C6, isoalkanes, <5% n-hexane | | | | | |
| | Acute fish toxicity | LC50 | 11,4 mg/l | 96 h | Onchorhynchus mykiss (Rainbow trout) Onchorhynchus mykiss (Rainbow trout) | |
| | Acute crustacea toxicity | EC50 | 3 mg/l | 48 h | Daphnia magna | |
| | Crustacea toxicity | NOEC mg/l | 0,17 | 21 d | Daphnia magna | |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|----------------------------------|---------|
| 67-64-1 | acetone; propan-2-one; propanone | -0,24 |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. According to the European Waste Catalogue (EWC), allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the

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substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 381, 959
Limited quantity: 1000 mL
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable

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14.3. Transport hazard class(es): 2.1

14.4. Packing group: -

Hazard label: 2.1



Special Provisions: A145 A167 A802

Limited quantity Passenger: 30 kg G

Passenger LQ: Y203

Excepted quantity: E0

IATA-packing instructions - Passenger: 203

IATA-max. quantity - Passenger: 75 kg

IATA-packing instructions - Cargo: 203

IATA-max. quantity - Cargo: 150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautions known.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation): not applicable

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

according to Regulation (EC) No 1907/2006

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- Version 1,00 - Creation - 29.07.2011
- Version 1,01 - changes of S-phrases - 02.08.2012
- Version 1,02 - revision of the entire SDS due to new information from the presupplier - 21. 11.2012
- Version 1,03 - revision of the entire SDS due to new information from the presupplier - 12.02.2013
- Version 1,04 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision - 09.06.2015
- Version 1,05 - General update. changes in section 1,14,15, 16
- Version 1,06 - General update - 27.10.2020

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)
- BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act
- CAS: Chemical Abstracts Service
- DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)
- EC: Effective Concentration
- EG: European Community (Europäische Gemeinschaft)
- EN: European Norm
- IATA: International Air Transport Association
- IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Code for Dangerous Goods
- ISO: Norm of the International Standards Organization
- CLP: Classification, Labeling, Packaging
- IUCLID: International Uniform Chemical Information Database
- LC: Lethal concentration
- LD: Lethal dose
- log Kow: Octanol/water partition coefficient
- MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships
- OECD: Organisation for Economic Co-operation and Development
- PBT: Persistent, bio-cumulative, toxic
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail
- TRGS: Technische Regeln für Gefahrstoffe
- UN: United Nations
- VOC: Volatile Organic Compounds
- vPvB: very persistent and very bio-cumulative
- VwVwS: Administrative Regulation for Water Pollutants
- WGK: German Water Hazard Class
- 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
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- TLV: Threshold Limiting Value
- STOT: Specific Target Organ Toxicity

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|----------------------|--------------------------|
| Aerosol 1; H222-H229 | On basis of test data |

Relevant H and EUH statements (number and full text)

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.

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| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asses AG, Frohsinnstraße 28, 63739 Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asses.eu, www.asses.eu

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