


according 1907/2006/EG, Article 31  
 Date of issue: 12.06.2014  
 Date of revision: 07.03.2016 / Version: 2.0

**Gisan**

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

- 1.1 Product identifier  
 Tradename: Gisan
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
 Relevant identified uses: Coating
- 1.3 Details of the supplier of the safety data sheet  
 Manufacturer/Supplier: SILADENT Dr. Böhme & Schöps GmbH  
 Street / mailbox: Im Klei 26  
 Country code. / postal code / city: DE - 38644 Goslar  
 Phone: +49 (0) 53 21 / 37 79 - 0  
 Fax: +49 (0) 53 21 / 38 96 32  
 E-mail / Website: [info@siladent.de](mailto:info@siladent.de) / [www.siladent.de](http://www.siladent.de)  
 Further information obtainable from: SILADENT Dr. Böhme & Schöps GmbH
- 1.4 Emergency telephone number  
 SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. – 4 p.m.)

**SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture  
 Classification according to Regulation (EC) No 1272/2008:  
 Flam. Liq. 2 H225 Highly flammable liquid and vapour.
- 2.2 Label elements  
 Labelling according to Regulation (EC) No 1272/2008:  
 Hazard pictograms:
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GHS02  
 Danger
- Signal word: Danger
- Hazard statements:  
 H225 Highly flammable liquid and vapour.
- Precautionary statements:  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
 No smoking.  
 P280 Wear protective gloves / eye protection.  
 P233 Keep container tightly closed.  
 P403 + P235: Store in a well-ventilated place. Keep cool.  
 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**

- 3.1 Substances Not applicable
- 3.2 Mixtures
- Dangerous components:
- |  |   |         |
|--|---|---------|
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Index: 603-002-00-5 | ethanol<br>F, R11<br>Flam. Liq. 2, H225                         | 50-100% |
| CAS: 56-81-5<br>EINECS: 200-289-5                        | glycerol<br>substance with a Community workplace exposure limit | 10-25%  |
- Additional information: For the wording of the listed risk phrases refer to section 16.

**SECTION 4: First aid measures**

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- 4.1 Description of first aid measures
- General information: Instantly remove any clothing soiled by the product.  
Take affected persons into the open air.  
After inhalation: Allow breathing of fresh air  
After skin contact: Instantly wash with water and soap and rinse thoroughly.  
After eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
After swallowing: If symptoms persist consult doctor.
- 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**

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- 5.1 Extinguishing media
- Suitable extinguishing agents: Water spray  
Foam  
Fire-extinguishing powder  
Carbon dioxide  
For safety reasons unsuitable extinguishing agents: Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture: No further relevant information available.
- 5.3 Advice for firefighters
- Protective equipment: Use a self-contained breathing apparatus and also a protective suit
- Additional information: Dispose of fire debris and contaminated firefighting water in accordance with official regulations.  
Collect contaminated firefighting water separately. It must not enter drains.

**SECTION 6: Accidental release measures**

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- 6.1 Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources. Use special care to avoid static electric charges.  
Use breathing protection against the effects of fumes/dust/aerosol.
- 6.2 Environmental precautions: Do not allow to enter drainage system. Inform respective authorities in case product reaches water or sewage system.
- 6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable containers.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Collect in suitable container for disposal.
- 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 information on disposal.

**SECTION 7: Handling and storage**

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- 7.1 Precautions for safe handling
- Store in cool, dry place in tightly closed containers.  
Ensure good ventilation/exhaustion at the workplace.  
Proper grounding procedures to avoid static electricity

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Information about protection against explosions and fires:	should be followed. Keep ignition sources away - Do not smoke. Protect from heat. Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.
7.2 Conditions for safe storage, including any incompatibilities	
Storage:	Keep container tightly closed. Keep cool and dry.
Storage class:	3 (flammable liquid)
7.3 Specific end use(s)	No further relevant information available.

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

8.1 Control parameters	
Components with critical values that require monitoring at the workplace:	
64-17-5 ethanol	
WEL	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
56-81-5 glycerol	
WEL	Long-term value: 10 mg/m <sup>3</sup>
DNEL	
No further relevant information available	
PNEC:	
No further relevant information available	
Additional information:	Based on information valid at the time of writing.
8.2 Exposure controls:	
Additional information about design of technical systems:	Please take care on national and local requirements.
General protective and hygienic measures:	Keep away from food, drink and animal feedingstuffs. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.
Personal protective equipment:	
Protection of hands:	Gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves:	Natural rubber, Butyl rubber, Latex, FKM (Viton). ≥ 0.4 mm
Penetration time of glove material:	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 safety glasses.
Breathing equipment:	Not required.
Body protection:	Protective work clothing.

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties	
General Information	
Appearance:	Liquid.
Physical state:	Liquid.
Colour:	According to product specification
Odour:	Pleasant
Odour threshold:	Not determined.
pH:	Not determined.
Melting point/Freezing point	Not determined.
Boiling point/Boiling range:	78°C
Flash point:	12°C
Flammability (solid, gas):	Not applicable.
Auto-ignition temperature:	Product is not self-igniting.
Decomposition temperature:	Not determined.

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Oxidising properties	Not determined
Explosive properties:	Product is not explosive. However, formation of explosive vapour/air mixtures is possible.
Explosive Limits:	
Lower:	0.9 Vol %
Upper:	15.0 Vol %
Vapour pressure at 20 °C:	59 hPa
Density at 20 °C:	0.88 g/cm <sup>3</sup>
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined
Solubility:	Fully miscible
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
9.2 Other information	
Solvent content (VOC):	70.0 %
Solids content:	0.0 %

**SECTION 10: Stability and reactivity**

10.1 Reactivity	No dangerous reactions known.
10.2 Chemical stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
10.3 Possibility of hazardous reactions	Develops readily flammable vapours / fumes.
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:	Not classified Based on available data, the classification criteria are not met

LD/LC50 values that are relevant for classification:		
64-17-5 ethanol		
Oral	LD50	7060 mg/kg (rat)
Inhalation	LD50	20000 mg/l/4h (rat)
56-81-5 glycerol		
Oral	LD50	12600 mg/kg (rat)

Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met..
Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Not classified Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met.
Carcinogenicity:	Not classified Based on available data, the classification criteria are not met.

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Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met.
Aspiration hazard:	Not classified Based on available data, the classification criteria are not met.
Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

12.1 Toxicity	
Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability:	Readily biodegradable
12.3 Bioaccumulative potential:	No further relevant information available.
12.4 Mobility in soil:	No further relevant information available.
12.5 Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Other adverse effects	Danger to drinking water if even small quantities leak into soil.

**SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Recommendation:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROZESSES
07 06 00	Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics.
07 06 99	Wastes not otherwise specified.

Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.

**SECTION 14: Transport information**

14.1 UN number	
ADR, IMDG, IATA:	UN1170
14.2 UN proper shipping name	
ADR:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
IMDG:	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
IATA:	Ethanol solution
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Klasse:	3 Flammable liquids.
Danger labels:	3
14.4 Packing group	
ADR, IMDG, IATA:	II
14.5 Environmental hazards	No
Marine pollutant:	No
Other information:	No further relevant information available.
14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number:	33

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EMS Number:	F-E,S-D
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ):	1L
Excepted quantities (EQ):	Code: E2
Transport category:	2
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ):	1L
Excepted quantities (EQ):	Code: E2
UN "Model Regulation":	UN1170, ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II

**SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations:	
Other regulations, limitations and prohibitive regulations:	
VOC (EU) in %:	70,00 %
15.2 Chemical safety assessment	A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Relevant phrases

H225: Highly flammable liquid and vapour.

R11: Highly flammable.

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 Harmonised 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

Changes compared to earlier Versions:

Complete revision. Adjustments according to Regulation (EC) No. 2015/830