

Safety data sheet

according to Regulation (EC) No. 1907/2006

Schliessmann Schwäbisch Hall

Date: 14.09.2017

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

1.1 Product identifier

Product name: Glyoxallösung 40 %ig, neutralisiert / Glyoxal solution 40%, neutralized

Article: 0730

Chemical name: Solution of glyoxal in water

Registration number: See section 3 for substances contained in the mixture

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

Reagent for the analysis of beverages

1.3 Details of the supplier of the safety data sheet

Company: C. Schliessmann Kellerei-Chemie GmbH & Co KG
Auwiesenstr. 5, D-74523 Schwäbisch Hall
Tel. 0049-(0)791 / 97191 -0, Fax -25
E-Mail: service@c-schliessmann.de

1.4 Emergency telephone number

Poison centre Freiburg: Tel. 0049-(0)761 / 19240

2. Hazards identification

2.1 Classification of the substance or mixture

Muta. 2 H341 Suspected of causing genetic defects.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements according to Regulation (EC) No 1272/2008

Hazard pictograms:



Signal word:

WARNING

Hazardous component:

glyoxal
*Labelling of bottles with < 125 ml

Hazard statements:

H341*	Suspected of causing genetic defects.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H317*	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statements:

P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P280*	Wear protective gloves / protective clothing / eye protection / face protection.
P302+P352*	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313* If exposed or concerned: Get medical advice / attention.

2.3 Other hazards No informations available

3. Composition/information on ingredients

3.1 Substance The product is a mixture.

3.2 Mixtures Solution of glyoxal and ethylene glycol in water

Dangerous component: glyoxal
EC Number: 203-474-9
CAS: 107-22-2
Reg.nr.: 01-2119461733-37-XXXX
Classification: Muta. 2 H341 Suspected of causing genetic defects.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Content: approx. 40 %

Dangerous component: ethylene glycol
EC Number: 203-473-3
CAS: 107-21-1
Reg.nr.: 01-2119456816-28-XXXX
Classification: Acute Tox. 4 H302 Harmful if swallowed.
Content: < 2,5 %

4. First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air. Call a doctor, when symptoms persist.
After skin contact: Rinse skin with water. Remove dirty clothing immediately. Medical treatment in case of skin irritation.
After eye contact: Rinse opened eye for 10 minutes under running water. Immediately consult a doctor in case of eye irritation.
After swallowing: Rinse out mouth and drink 2 glasses of water. Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

After inhalation: Mucosal irritations, cough
After skin contact: Irritant and allergic skin reactions
After eye contact: Serious eye irritation
After swallowing: Irritation, nausea, vomiting. After resorption of bigger volumes agitation, spasms, damages of stomach and kidneys.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.0 Combustibility The product is not combustible.

5.1 Suitable extinguishing agents Foam, powder, CO₂ or water spray

5.2 Special hazards arising from the substance or mixture Risk of toxic fumes and carbon monoxide if burning.

5.3 Advice for firefighters Extinguishing activities according to the environment; wear self-contained respiratory protective device, avoid skin contact.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Don't breathe aerosols and fumes. Ventilate affected area.

6.2 Environmental precautions	Do not allow to enter sewers/ground water or penetrate the soil.
6.3 Methods and material for containment and cleaning up	Absorb with liquid-absorbent and arrange removal by disposal company. Clean up with water.
6.4 Reference to other sections	See Section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handling	See notes in Section 2 and 8. Use extractor hood. Avoid inhalation. Don't pipette by mouth!
7.2 Conditions for safe storage, including any incompatibilities	Keep well closed and dry at 15-25°C; separated from foods.
7.3 Specific end use(s)	See section 1.2

8. Exposure controls/personal protection

8.1 Control parameters	
WEL (Workplace Exposure Limit):	Short-term value glyoxal: 26 mg/m ³ ; ethylene glycol: 100mg/m ³

8.2 Exposure controls

Personal protective equipment:	
Respiratory protection:	Necessary when vapours/aerosols are generated, recommended filter-type AX.
Eye protection:	Safety goggle with side protection
Skin protection:	Protective gloves
General hygiene considerations:	Change contaminated clothing. Preventive skin protection. Wash hands after working.

9. Physical and chemical properties

Physical state:	Liquid
Colour:	Light yellow
Odour:	Characteristic
pH-value:	7 (20°C)
Melting temperature:	-14°C
Boiling temperature:	104°C
Ignition temperature:	ca. 285°C
Flash point:	Not relevant
Danger of explosion:	Not available
Vapour pressure:	20 hPa (20°C)
Density:	1,27 g/cm ³ (20°C)
Solubility in water:	Unlimited

10. Stability and reactivity

10.1 Reactivity	See section 10.3
10.2 Chemical stability	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions	Violent reaction with acids and alkali.
10.4 Conditions to avoid	Heating
10.5 Incompatible materials	Aluminium, copper, steel
10.6 Hazardous decomposition products	In case of fire: see section 5.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (mixture!):	
LD50 (oral, rat):	2000-5000 mg/kg
LC50 (inhal., rat, 4h):	2,4 mg/L as aerosol
Subacute/chronic toxicity:	May cause sensitization by skin contact.
CMR effects:	

Mutagenicity:	Suspected of causing genetic defects.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.

11.2 Further information See section 4 for symptoms after direct contact with the product.

12. Ecological information

All Informations refer to:	Mixture!
12.1 Aquatic toxicity	LC50 (96h) 460-680 mg/l (Leuciscus idus)
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	No data available.
12.6 Other adverse effects	No further relevant information available.

13. Disposal considerations

Product must be disposed of as hazardous waste. Disposal according to official regulations.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

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

Information about limitation of use:	Employment restrictions concerning juveniles and pregnant and lactating women must be observed.
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Waterhazard class:	1 (slightly hazardous for water)
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16. Other information

The informations provided on this SDS are correct to the best of our knowledge and information. These informations are designed as a guide for safe handling. They are no guarantee for specific characteristics of the product.