



STABILIZED GLYCEROL FORMAL (CODE 1007)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Identification of the substance or of the preparation

Denomination: Stabilized Glycerol Formal
Glicerinformal Estabilizado

Mixture of two isomers:
5-HIDROXY-1,3-DIOXANE (aprox. 55 %) CAS: 4740-78-7
4-HIDROXYMETHYL-1,3-DIOXALANE (aprox. 45 %) CAS: 5464-28-8

Product code: 1007

Other means of identification: RTECS no. JH8390000 (glycerol formal)

1.2 Uses: Solvent for active ingredients.

1.3 Identification of the company:

Company	S.P. QUÍMICA S. A
Address	Carretera de Reus a Vinyols Km 4.1 43330 Riudoms- ESPAÑA
Postal address	PO Box 78 43330 Riudoms - ESPAÑA
Telephone	+34 977 850026
Fax	+34 977 850521
e-mail	

Emergency telephone: 112
Toxicology telephone: 91 5620420

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008 (CLP)

Repr.2 Reproductive toxicity. H361d Suspected of damaging the unborn child.
Repr.2 Reproductive toxicity. H361f Suspected of damaging fertility.

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

Repr. Cat.3; R62 Possible risk of impaired fertility.
Repr. Cat.3; R63 Possible risk of harm to the unborn child..

Adverse physicochemical, human health and environmental effects.

No additional information available.



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2.2 Label elements.

Labelling according to Regulation (EC) N° 1272/2008 (CLP).

Hazard pictograms (CLP):



GHS08



GHS07

Signal word (CLP): GHS08 Warning
GHS07 Warning

Hazard statement (CLP): H315- Causes skin irritation.
H319- Causes serious eye irritation.
H361d- Suspected of damaging the unborn child.
H361f- Suspected of damaging fertility.

Precautionary statements (CLP): P202 – Do not handle until all safety precautions have been read and understood.
P264- Wash thoroughly after handling.
P280- Wear protective gloves/protective clothing/eye protection/face protection.
P281- Use personal protective equipment as required.
P308+P313- If exposed or concerned: Get medical advice/attention.
P337+P313 – If eye irritation persists: Get medical advice/attention.
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards.

Other hazards not contributing to the classification: Exposure may produce allergic reaction.

SECTION 3: COMPOSITION/INFORMACION ON INGREDIENTS

Formula: C₄ H₈ O₃

MW: 104,11 g/mol

Mixture of 2 isomers:

5-Hidroxy-1,3-Dioxane

(approx. 55%)

CAS no.: 4740-78-7

4-Hidroxymethyl-1,3-dioxolane

(approx. 45%)

CAS no.: 5464-28-8



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Repr.2 Reproductive toxicity.
Repr.2 Reproductive toxicity fertility.

H315- Causes skin irritation.
H319- Causes serious eye irritation.
H361d- Suspected of damaging the unborn child.
H361f- Suspected of damaging fertility.

Stabilizers and antioxidants:
Propyl Gallate aprox. 0.02%
Thiodipropionic acid aprox. 0.01%
Sodium EDTA aprox. 0.02%

SECTION 4: FIRST AID MEASURES

4.1 General information: Avoid contact with eyes and skin. It may provoke irritation of eyes, skin and mucous membrane. Do not ingest.

Inhalation: Move the person from the exposure to fresh air zone immediately. Rinse the mouth and throat with water. In case of respiratory upset, get medical attention.

Contact with skin: In case of contact, flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. In case of cutaneous response, get medical attention.

Eyes: In case of contact, immediately flush the eyes with plenty of water for at least 15 minutes, assuring adequate flushing by separating the eyelids with fingers. If the person wears contact lenses, remove them if easily possible. If the irritation persists, get medical attention.

Ingestion: In case of ingestion wash out mouth with water, seek medical advice immediately.

4.2 Most important symptoms and effects: See section 2.

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

In case of reactions described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison centre. Show the label and this safety data sheet.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Appropriate extinguishing media: Spray water, dry chemical dust and foam.

5.1.1 Unsuitable extinguishing media: water under pressure.

5.2 Special risks: The heating or the fire may generate toxic gases.



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5.3 Protective equipment: In case of fire wear self-acting breathing equipment, and protective clothing to prevent contact with skin and eyes.

5.3.1 Other recommendations: Refrigerate with water the tanks, cisterns or recipients which they are near to the heat source or the fire. Take into account the wind direction. Avoid that the used products in the extinction of fire go to the sewer or water systems.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Individual precautions: Use self-protective equipment.

6.2 Precautions for the environment protection: Avoid that the product arrives to the sewer, superficial or subterranean water.

6.3 Methods of cleaning and collection: Absorb the product with inert material, collect the residue and transfer in a suitable recipient for the recuperation or elimination.

SECTION 7: HANDLING AND STORAGE

7.1 Handling: Do not eat, drink or smoke while the handling of the product. Wash the hands after the handling of the product. Remove and wash the used clothes. Avoid the contact with eyes and skin. Do not ingest and inhale the product.

7.2 Storage: In well-closed containers. Keep the product in a cool, dry and well ventilated place. In order to keep the quality of the product do not store it in a hot place or exposed to the sun light.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Limit control of exposure, according to directive 89/686/CEE (RD.1407/1992):
No available data.

8.2 Technical measures of protection: Provide adequate ventilation, for that it must be achieving appropriate local ventilation and it must have available a general extraction system that it keeps the particle concentration below the exposure limits.

8.2.1 Breathing protection: Avoid the inhalation.

8.2.2 Hand protection: Use plastic or gum gloves.

8.2.3 Eye protection: Use safety well-closed glasses with lateral protections for chemical products.

8.2.4 Particular hygiene measures: Handle with the precautions of suitable industrial hygiene and respect the safety instructions.

8.2.5 Exposure controls to the environment: Avoid any spillage to the environment.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Colourless and translucent liquid.
Solubility in water at 20°C	500 g/L
Odour	N. A.
Odour threshold	N. A.
pH (10 % V/V in water)	4.0 – 6.5
Vapour pressure between 20 and 50°C	30-1000 Pa
Vapour density	N. A.
Evaporation rate	N. A.
Flammability (solid, gas)	N. A.
Flammability limits	N. A.
Viscosity	11.7 mm ² /s
Boiling point	193.95 °C a 101.325 Kpa
Freezing point	-50 °C
Melting point	N. A.
Flash Point	98-99 °C
Self-ignition temperature	N. A.
Decomposition temperature	N. A.
n-octane/water partition rate	-0.99
Relative density:	1.22 g/cm ³
Explosive properties	N. A.
Oxidising properties	N. A.
Molecular formula:	C ₄ H ₈ O ₃
Molecular weight:	104.11 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Stable under the recommended conditions of storage and handling.

10.2 Chemical Stability: No additional information available.

10.3 Possibility of hazardous reactions: No available data.

MATERIAL SAFETY DATA SHEET

According to the CE directive 1907/2006



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10.4 Conditions to avoid: Keep distant from heat sources. Avoid the direct sun light. Avoid humidity conditions.

10.5 Incompatible materials: No available data.

10.6 Dangerous decomposition products: Dangerous products or toxic gases like carbon monoxide may be generated due to the thermal decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION.**11.1 Acute toxicity:**

Oral DL50 in mouse	8000 mg/kg
Oral DL50 in rats	2000 mg/kg
Dermal DL50 in rats	2000 mg/kg
Intraperitoneal DL50 in rat	9500 mg/kg
Intraperitoneal DLLo in mice	7500 ug/kg
Intraperitoneal DLLo in rabbit	8530 ug/kg

11.2 Dangerous effects for the health: May cause a slight irritation in skin and eyes for repeated contact.

It is not known a sensitizer effect.

It is not totally known the acute and chronic toxicity of this product.

There is risk during the pregnancy in adverse effect for the fetus.

There is not classificatory data about the carcinogen properties of this product according to EPA, IARC, NTP, OSHA or ACGIH

SECTION 12: ECOLOGICAL INFORMATION**12.1 Aquatic toxicity:**

Short-term toxicity: LC50 (Fish in 4 days): 41.438 g/L

Long-term toxicity: NOEC (Fish in 30 days): 2.925 g/L

Short-term toxicity: EC50 (algae in 4 days): 4.247 g/L

Long-term toxicity: NOEC (algae in 30 days): 601.38 mg/L

In not dilute state or not neutralized, do not allow that the product filter in the subterranean water, superficial water or sewer systems.

12.2 Degradability: Under a BOD5 of 3.8 mg O_{2/g} of product, it is not observed biodegradability.

12.3 Bioaccumulative potential: No available data.

12.4 Mobility in soil: No available data.

12.5 Results of PBT and vPvB assessment: No available data.

12.6 Other adverse effects: No additional information available.



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SECTION 13: DISPOSAL CONSIDERATION

13.1 Substance or preparation: The organic ingredients may be incinerated in an adequate installation in accordance with the applicable local regulations.

13.2 Contaminated packaging, Directive 94/62/CE (law 11/1997 and RD. 782/1998): The Empty drums and other packaging has to be eliminated in accordance with the applicable local and national regulations.

SECTION 14: TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (national-international)
Class ADR/RID-GGVS/E Not classified

Maritime transport IMDG/GGV
Class IMDG/GGV sea Not classified

Air transport ICAO-TI and IATA-DGR:
Class ICAO-TI and IATA-DGR Not classified

It is not considered a dangerous product according to all the aforementioned dispositions.

14.6 Special precautions for the user: No additional information available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:
Not applicable.

SECTION 15: REGULATORY INFORMATION

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

15.1.1 European regulations: No REACH Annex XVII restrictions.

15.1.2 National Regulations: No information available.

15.2 Other regulations:

USA Regulations:

- ◆ TSCA: It is not included in any section of the TSCA inventory.
- ◆ SARA: It is not included in any SARA section..
- ◆ Clean Air Act: This product does not contain any dangerous air pollutant.
- ◆ Clean Water Act: It is not considered as dangerous for CWA.
- ◆ OSHA: It is not considered highly dangerous for OSHA.

MATERIAL SAFETY DATA SHEET

According to the CE directive 1907/2006



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STABILIZED GLYCEROL FORMAL (CODE 1007)Canada:

- ◆ This product is not included in the DSL/NDSL list.
- ◆ It is not included in the Ingredient Disclosure List of Canada.

Exposure limits:

- OEL-Australia: TWA 10 mg/m³
- OEL-Belgium: TWA 10 mg/m³
- OEL-Finland: TWA 20 mg/m³
- OEL-France: TWA 10 mg/m³
- OEL-Holland: TWA 10 mg/m³
- OEL-United Kingdom: TWA 10 mg/m³

SECTION 16: ADDITIONAL INFORMATION

Date of the first issue: 01/09/2004

Number and revision date: 5^a - 14/03/2016

Legislation about safety data sheet: Safety data sheet according to the annex II of the EC regulation no. 1907/2006 (REACH).

The information of this safety data sheet is based on the present knowledge and the applicable National and the European Union regulations. It is always responsibility of the end-user to take the appropriate measures in order to comply with the established requirements according to the applicable regulations. The information of this safety data sheet is only conceived as a description about the safety requirements of the substance, then it must not be consider as a guarantee of their properties.