# Safety data sheet
## according to Regulation (EC) No 1907/2006, Article 31

*Printing date 13.04.2026* *Version number 13 (replaces version 12)* *Revision: 13.04.2026*

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

· **1.1 Product identifier**
· **Trade name: Silicon 1 g/L, solution in water**
· **SDS number:** CH2463
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Life cycle stages**
IS Use at industrial Sites
F Formulation or re-packing
· **Application of the substance / the mixture** Chemicals products for laboratory

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
CARLO ERBA REAGENTS
Chaussée du Vexin
Parc d'Affaires des Portes - BP616
27106 VAL DE REUIL Cedex
Téléphone: +33 (0)2 32 09 20 00
Télécopie: +33 (0)2 32 09 20 20
· **Further information obtainable from:**
Q.A / Normative
email: MSDS_CER-SDS@cer.dgroup.it
· **1.4 Emergency telephone number:**
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24)
EU Tel : 112

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## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the CLP regulation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable
· **vPvB:** Not applicable
· **Determination of endocrine-disrupting properties** Not applicable

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## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture made by the following substances:
· **Dangerous components:** Void

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## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** No special measures required.
· **After inhalation:** Supply fresh air; consult a doctor in case of complaints.
· **After skin contact:** Generally the product does not irritate the skin.

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· ***After swallowing:*** *Drink plenty of water and provide fresh air.*
· ***Information for doctor:*** *Show the doctor this Material Safety Data Sheet.*
· ***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:*** *Use fire extinguishing methods suitable to surrounding conditions.*
· ***5.2 Special hazards arising from the substance or mixture*** *No further relevant information available.*
· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Do not inhale gases in case or fire or combustion.*
· ***Additional information*** *Keep receptacles cool with water spray.*

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## SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures*** *Not required*
· ***6.2 Environmental precautions:***
*Dilute with plenty of water after collecting the liquid.*
*Do not allow to enter sewers/ surface or ground water.*
· ***6.3 Methods and material for containment and cleaning up:***
*Collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc).*
· ***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*** *No special measures required.*
· ***Information about fire - and explosion protection:*** *The product is not flammable.*

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
*Store in a well-ventilated place. Keep container tightly closed.*
· ***Information about storage in one common storage facility:*** *Not required*
· ***Further information about storage conditions:*** *Protect from frost.*
· ***7.3 Specific end use(s)*** *No further relevant information available.*

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## SECTION 8: Exposure controls/personal protection

· ***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***
· ***Appropriate engineering controls*** *No further data; see section 7.*

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· ***Individual protection measures, such as personal protective equipment***
· ***General protective and hygienic measures:***
*The usual precautionary measures are to be adhered to when handling chemicals.*
· ***Respiratory protection:*** *Not required*
· ***Hand protection***
*The selected protective gloves have to satisfy the specifications of REGULATION (EU) 2016/425 and the standard EN 374 derived from it.*
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*
· ***Penetration time of glove material***
*The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*
· ***Eye/face protection*** *Not required*
· ***Environmental exposure controls***
*In case of unintended release of the product: See section 6 of the Safety Data Sheet.*
· ***Risk management measures*** *Keep good industrial hygiene.*

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## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · ***9.1 Information on basic physical and chemical properties*** | |
| · ***Molecular weight*** | |
| · ***Physical state*** | *Liquid* |
| · ***Colour:*** | *Colourless* |
| · ***Odour:*** | *Characteristic* |
| · ***Odour threshold:*** | *Not determined* |
| · ***Melting point/freezing point:*** | *Undetermined* |
| · ***Boiling point or initial boiling point and boiling range*** | *100 °C* |
| · ***Flammability*** | *Not applicable* |
| · ***Lower and upper explosion limit*** | |
| · ***Lower:*** | *Not determined* |
| · ***Upper:*** | *Not determined* |
| · ***Flash point:*** | *Not applicable* |
| · ***Decomposition temperature:*** | *Not determined* |
| · ***Viscosity:*** | |
| · ***Kinematic viscosity*** | *Not determined* |
| · ***Dynamic:*** | *Not determined* |
| · ***Solubility*** | |
| · ***water:*** | *Fully miscible.* |
| · ***Partition coefficient n-octanol/water (log value)*** | *Not determined* |
| · ***Vapour pressure at 20 °C:*** | *23 hPa* |
| · ***Density and/or relative density*** | |
| · ***Density at 20 °C:*** | *1.02849 g/cm³* |
| · ***Relative density*** | *Not determined* |
| · ***Vapour density*** | *Not determined* |

| | |
|---|---|
| · ***9.2 Other information*** | |
| · ***Appearance:*** | |
| · ***Form:*** | *Fluid* |
| · ***Important information on protection of health and environment, and on safety.*** | |
| · ***Ignition temperature:*** | *Product is not selfigniting.* |
| · ***Explosive properties:*** | *Product does not present an explosion hazard.* |

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| | |
|---|---|
| · **Solvent separation test:** | |
| · **Solids content:** | 2.0 % |
| · **Change in condition** | |
| · **Evaporation rate** | Not determined |

| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Void |
| · **Oxidising gases** | Void |
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Void |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

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## SECTION 10: Stability and reactivity

· **10.1 Reactivity** See 10.3
· **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 decomposition products known, more dangerous than the product as such.

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## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**CAS: 16919-19-0 alkali fluorosilicates (NH4)**

| | | |
|---|---|---|
| Oral | LD50 | 100 mg/kg (ATE) |
| Dermal | LD50 | 300 mg/kg (ATE) |
| Inhalative | LC50/4 h | 0.5 ppm (ATE) |

· **Primary irritant effect:**
· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Ingestion:** It can be harmfull if swallowed.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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· ***Carcinogenicity*** *Based on available data, the classification criteria are not met.*
· ***Reproductive toxicity*** *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.*
· ***Aspiration hazard*** *Based on available data, the classification criteria are not met.*
· ***Other information (about experimental toxicology):*** *No further relevant information available.*
· ***11.2 Information on other hazards***

| · ***Endocrine disrupting properties*** |
|---|
| *None of the ingredients is listed.* |

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## *SECTION 12: Ecological information*

· ***12.1 Toxicity***
· ***Aquatic toxicity:*** *No further relevant information available.*
· ***12.2 Persistence and degradability*** *No further relevant information available.*
· ***Method***
· ***Ecological information*** *Not available*
· ***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 Endocrine disrupting properties***
*The product does not contain substances with endocrine disrupting properties.*
· ***12.7 Other adverse effects***
· ***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.*

* 
## *SECTION 13: Disposal considerations*

· ***13.1 Waste treatment methods***
· ***Recommendation*** *Reutilise if possible or contact a waste processors for recycling or safe disposal.*
· ***Waste disposal key:***
*The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste.*
*2014/955/UE: Council Decision of 18 December 2014 amending the list of wastes contained in Decision 2000/532/EC.*
*Directive 2008/98/EC of the european parliament and of the council of 18 November 2008, in ist latest valid version.*
· ***Uncleaned packaging:***
*The containers and packaging materials contaminated with dangerous substances or preparations, have the same treatment of products.*
*Directive 94/62/EC of the European Parliament and the Council of 20 December 1994 on packaging and packaging waste.*
· ***Recommendation:***
*Disposal must be made according to official regulations.*
*Packagings that may not be cleansed are to be disposed of in the same manner as the product.*

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· ***Recommended cleansing agents:*** *Water, if necessary together with cleansing agents.*

## SECTION 14: Transport information

| | |
|---|---|
| · ***14.1 UN number or ID number*** | |
| · ***ADR/RID, ADN, IMDG, IATA*** | *Void* |
| · ***14.2 UN proper shipping name*** | |
| · ***ADR/RID, ADN, IMDG, IATA*** | *Void* |
| · ***14.3 Transport hazard class(es)*** | |
| · ***ADR/RID, ADN, IMDG, IATA*** | |
| · ***Class*** | *Void* |
| · ***14.4 Packing group*** | |
| · ***ADR/RID, IMDG, IATA*** | *Void* |
| · ***14.5 Environmental hazards:*** | |
| · ***Marine pollutant:*** | *No* |
| · ***14.6 Special precautions for user*** | *Not applicable* |
| · ***14.7 Maritime transport in bulk according to IMO instruments*** | *Not applicable* |
| · ***UN "Model Regulation":*** | *Void* |

## SECTION 15: Regulatory information

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

· ***SARA Section 355 (extremely hazardous substances)***

*None of the ingredients is listed.*

· ***SARA Section 313 (specific toxic chemical listings)***

*None of the ingredients is listed.*

· ***Prop 65 - Chemicals known to cause cancer***

*None of the ingredients is listed.*

· ***Directive 2012/18/EU***

· ***Named dangerous substances - ANNEX I*** *None of the ingredients is listed.*

· ***REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)***

*None of the ingredients is listed.*

· ***LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)***

*None of the ingredients is listed.*

· ***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II***

*None of the ingredients is listed.*

· ***REGULATION (EU) 2024/590 on substances that deplete the ozone layer***

*None of the ingredients is listed.*

· ***National regulations:***

· ***Waterhazard class:*** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

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· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **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.

· **Department issuing SDS:** Q.A./Normative
· **Date of previous version:** 08.04.2021
· **Version number of previous version:** 12
· **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 Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
· **Sources**
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, REACH, in the latest valid version.
Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008, CLP, in the latest valid version.
Globally Harmonized System, GHS
ADR/RID, IMDG, IATA
PubChem : an open chemistry database at the National Institutes of Health (NIH)
ECHA : European CHemicals Agency
GESTIS : Information system on hazardous substances of the German Social Accident Insurance
· ***** Data compared to the previous version altered.** .