Dr. Grogg Chemie AG
Gümligentalstrasse 83
CH-3066 Stettlen-Deisswil

Telefon 031 932 11 66
info@grogg-chemie.ch
www.grogg-chemie.ch

COVER SHEET FOR THE SAFETY DATA SHEET

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Item number: G096

Trade name: Citric acid monohydrate extra pure

Supplier:
Dr. Grogg Chemie AG
Gümligentalstrasse 83
CH-3066 Stettlen-Deisswil
info@grogg-chemie.ch
Tel. +41 31 932 11 66

Emergency number:
24-hour emergency number: 145
Help with poisoning. Tox Info Suisse provides free medical advice round the clock in cases of poisoning or suspected poisoning.

Tox Info Suisse
Freiestrasse 16
8032 Zürich
Tel. +41 (0) 44 251 51 51
www.toxinfo.ch

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SECTION 1: Identification of the product and of the company

· ***1.1 Product identity***
· ***Trade name:*** ***Citric acid monohydrate E330 EP***

· ***Article number:*** 627
· ***CAS Number:***
5949-29-1
· ***EC number:***
611-842-9

· ***REACH Registration number*** 01-2119457026-42
· ***1.2 Relevant uses of the product and uses advised against***
· ***Product category***
PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents
PC21 Laboratory chemicals
PC37 Water treatment chemicals
PC39 Cosmetics, personal care products
PC35 Washing and cleaning products (including solvent based products)
· ***Application of the product***
Food additive
Basic chemical

· ***1.3 Details of the supplier of the safety data sheet***
· ***Manufacturer/Supplier:***
Thommen-Furler AG
Industriestrasse 10
CH-3295 Rüti bei Büren (BE)
Tel. +41 32 352 08 00
sdb@thommen-furler.ch

· ***Information department:*** Product Management department
· ***1.4 Emergency telephone number:***
Toxicological information Swiss center (available 24h/7d): emergency call 145
or +41 (0) 44 251 51 51

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SECTION 2: Hazard(s) identification

· ***2.1 Classification of the substance or mixture***
· ***Classification according to Regulation (EC) No 1272/2008***


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Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.

· ***2.2 Label elements***
· ***Labelling according to Regulation (EC) No 1272/2008***
The substance is classified and labeled according to the CLP regulation.
· ***Hazard pictograms***


GHS07

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· ***Signal word*** Warning
· ***Hazard statements***
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
· ***Precautionary statements***

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P405	Store locked up.
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

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SECTION 3: Composition/information on ingredients

· ***3.1 Chemical characterization: Substances***
· ***CAS No. Description***
CAS: 5949-29-1 Citric acid monohydrate
· ***Identification number(s)***
· ***EC number:*** 611-842-9

*
SECTION 4: First-aid measures

· ***4.1 Description of first aid measures***
· ***General information:*** Personal protection for the First Aider.
· ***After inhalation:*** Supply fresh air; consult doctor in case of complaints.
· ***After skin contact:*** Immediately wash with water and soap and rinse thoroughly.
· ***After eye contact:***
Remove any contact lenses if possible. Continue rinsing.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· ***After swallowing:*** Seek immediate medical advice.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
No further relevant information available.

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SECTION 5: Fire-fighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· ***5.2 Special hazards arising from the substance or mixture***
May expand or decompose explosively when heated or in case of fire.
· ***5.3 Advice for firefighters*** Fight the fire with the usual precautions from an appropriate distance.
· ***Protective equipment:*** Do not inhale explosion gases or combustion gases.

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· ***Additional information***
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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SECTION 6: Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Ensure adequate ventilation
Wear protective clothing.
Take precautions against static discharges.
· ***For non-emergency personnel*** Bring people to safety.
· ***For emergency responders***
It is recommended that the emergency services wear dust masks.
Respiratory protective equipment must be worn when exposed to vapours, dusts, aerosols and gases.
· ***6.2 Environmental precautions:*** Do not allow to enter sewers/ surface or ground water.
· ***6.3 Methods and material for containment and cleaning up:***
Pick up the spilled material with a clean shovel and place it in a clean, dry, loosely closed container.
Then remove the sealed container from the spill site and dispose of the material in accordance with waste disposal regulations.
· ***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.

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SECTION 7: Handling and storage

· ***7.1 Precautions for safe handling*** Open and handle receptacle with care.
· ***Information about protection against explosions and fires:***
Keep respiratory protective device available.

· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Requirements to be met by storerooms and receptacles:***
The product absorbs moisture, it is hygroscopic.
Store in a dry place.
Provide acid-resistant floor.
· ***Information about storage in one common storage facility:***
No special restrictions, however, observe the storage restrictions!
· ***Further information about storage conditions:*** Keep receptacle tightly sealed.
· ***Storage class:***
11/13
-
· ***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***
· ***Components with limit values that require monitoring at the workplace:***
MAK SUVA – mg/m³ Short-term limit value (inhalable dust)
MAK SUVA – mg/m³ MAK value (inhalable dust)
· ***Additional information:*** The lists that were valid during the creation were used as basis.

(Contd. on page 4)

(Contd. of page 3)

· ***8.2 Exposure controls***
· ***Appropriate engineering controls*** No further data; see section 7.
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Avoid close or long term contact with the skin.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
· ***Breathing equipment:***
Not necessary if room is well-ventilated.
Use suitable respiratory protective device only when aerosol or mist is formed.
· ***Protection of hands:***


Protective gloves

· ***Material of gloves***
Protective gloves in accordance with standard EN 374
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
· ***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:***
Use chemical safety goggles with side protection according to EN 166:2001.
If needed as a result of the risk evaluation, use face shield or a full face respiratory mask.
At the work place an emergency eye wash station must be available.
Safety glasses


Tightly sealed goggles

· ***Body protection:*** Acid resistant protective clothing
· ***Risk management measures***
Increased hygiene requirements must be observed in the area of food additives.
An emergency shower must be available at the workplace.
An eye shower must be available at the workplace.
Ensure good ventilation.

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SECTION 9: Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***
· ***General Information***

· ***Physical state***	Solid
· ***Color:***	White
· ***Odor:***	Odorless
· ***Odor threshold:***	Not determined
· ***Melting point/Melting range:***	135-152 °C
· ***Boiling point/Boiling range:***	56 °C

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Trade name: Citric acid monohydrate E330 EP

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· **Flammability:**	Product is not flammable.
· **Explosion limits:**	
· **Lower:**	Not determined
· **Upper:**	Not determined
· **Flash point:**	100 °C
· **Auto igniting:**	345 °C
· **Decomposition temperature:**	>154 °C
· **pH-value:**	1.85
· **Viscosity:**	
· **Kinematic:**	Not applicable
· **Dynamic:**	Not applicable
· **Solubility in / Miscibility with**	
· **Water:**	Soluble.
· **Partition coefficient (n-octanol/water):**	Not determined
· **Vapor pressure at 20 °C:**	0.1 hPa
· **Density and/or relative density**	
· **Density at 20 °C:**	1.54 g/cm³
Not determined	
· **Relative density**	Not determined
· **Bulk density:**	800-1,000 kg/m³
· **Vapor density**	Not applicable

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Crystalline
· **Important information on protection of health and environment, and on safety.**	
· **Ignition temperature:**	Not determined
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Molecular weight**	210.14 g/mol
· **Change in condition**	
· **Evaporation rate**	Not applicable.

· **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

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· **Desensitised explosives**	Void

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SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Information on the shelf life**
The product is stable if the regulations/instructions for storage and handling are observed.
· **Thermal decomposition / conditions to be avoided:** Decomposition in heat.
· **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 dangerous decomposition products known.

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**		
Oral	LD50	3,000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Causes skin irritation.
· **on the eye:** Causes serious eye irritation.
· **Specific target organ toxicity - single exposure** May cause respiratory irritation.
· **Additional toxicological information:**
· **OSHA-Ca (Occupational Safety & Health Administration)** Substance is not listed.
· **11.2 Information on other hazards**
· **Endocrine disrupting properties** Substance is not listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
LC50/96 h	>440-760 mg/l (leuciscus idus)

· **12.2 Persistence and degradability**
Anorganic product, is not eliminable from water by means of biological cleaning processes.
· **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 (Assessment by list): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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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.
· **Waste disposal key:** 06 01 06

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, ADN, IMDG, IATA**	Void
· **14.2 UN proper shipping name**	
· **DOT, ADR, ADN, IMDG, IATA**	Void
· **14.3 Transport hazard class(es)**	
· **ADR, ADN, IMDG, IATA**	
· **Class**	Void
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Not applicable
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	
· **UN "Model Regulation":**	Void

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SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Swiss Ord. 822.115, Youth Labour Protection Ordinance - ArGV 5 and 822.115.2, Ordinance of the EAER on hazardous work for young people are not applicable.
· **Sara**
· **Section 355 (extremely hazardous substances):** Substance is not listed.
· **Section 313 (Specific toxic chemical listings):** Substance is not listed.
· **Proposition 65**
· **Chemicals known to cause cancer:** Substance is not listed.

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· ***Chemicals known to cause reproductive toxicity for females:*** Substance is not listed.
· ***Chemicals known to cause reproductive toxicity for males:*** Substance is not listed.
· ***Chemicals known to cause developmental toxicity:*** Substance is not listed.

· ***Carcinogenic categories***
· ***EPA (Environmental Protection Agency)*** Substance is not listed.
· ***TLV (Threshold Limit Value)*** Substance is not listed.
· ***NIOSH-Ca (National Institute for Occupational Safety and Health)*** Substance is not listed.
· ***Labelling according to Regulation (EC) No 1272/2008***
The substance is classified and labeled according to the CLP regulation.
· ***Hazard pictograms***



GHS07

· ***Signal word*** Warning
· ***Hazard statements***
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
· ***Precautionary statements***

P261	Avoid breathing dust/fume/gas/mist/vapors/spray
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P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· ***Directive 2012/18/EU***
· ***Named dangerous substances - ANNEX I***
Not subject to Directive 2012/18/EU (Seveso III)
Substance is not listed.

· ***National regulations:***

· ***Water hazard class:*** Water hazard class 1 (Assessment by list): slightly hazardous for water.

· ***Other regulations, limitations and prohibitive regulations***
· ***Additionnal informations according ChemRRV*** None.

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:*** Product Management department
· ***Contact:*** Product Management
· ***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

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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
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
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
· **** Data compared to the previous version altered.***