

1. Identification of the substance/preparation and of the company/undertaking*Identification of the product*

Catalogue No.: 100242

Product name: Citric acid monohydrate cryst. extra pure Ph Eur,BP,USP,E 330

Manufacturer/supplier identification

Company: Merck KGaA * 64271 Darmstadt * Germany * Tel: +49 6151 72-0

Emergency telephone No.: Please contact the regional Merck representation in your country.

2. Composition/information on ingredients*Synonyms*

Hydroxytricarballic acid

CAS-No.: 5949-29-1

M: 210.14 g/mol

EC-No.: 201-069-1

Formula Hill: $C_6H_8O_7 \cdot H_2O$ **3. Hazards identification**

Irritating to eyes.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

After swallowing: make victim drink plenty of water, induce vomiting, summon doctor.

5. Fire-fighting measuresSuitable extinguishing media:
powder, foam, spray water.

Special risks:

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information:

Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

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6. Accidental release measures

Person-related precautionary measures:
Avoid substance contact. Avoid generation of dusts; do not inhale dusts.

Environmental-protection measures:
Do not allow to enter sewerage system.

Procedures for cleaning / absorption:
Take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

Store protected from solvents.
No further requirements.

Storage:

Tightly closed. Dry. Storage temperature: no restrictions.

Requirements for storage rooms and containers:
No metal containers.

8. Exposure controls/personal protection

Specific control parameter

German regulations

MAK Germany (max. workplace conc.)

Name	Citric acid
Value	see MAK-List - Substances for which, as yet, no MAK Value can be Established

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection: required

Industrial hygiene:

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

9. Physical and chemical properties

Form:	solid
Colour:	white
Odour:	odourless
pH value	
at 50 g/l H ₂ O	(25 °C) 1.85
Melting point	135-152 °C

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91/155/EECCatalogue No.: 100242
Product name: Citric acid monohydrate cryst. extra pure Ph Eur,BP,USP,E 330

Boiling point		(decomposition)		
Ignition temperature		345 °C		(anhydrous substance)
Flash point		not applicable		
Explosion limits	lower	not available		
	upper	not available		
Vapour pressure	(20 °C)	< 0.1 hPa		(anhydrous substance)
Density	(20 °C)	1.54 g/cm ³		
Bulk density		~ 800-1000 kg/m ³		
Solubility in				
water	(20 °C)	~ 1630 g/l		
ethanol	(25 °C)	419 g/l		
ether		sparingly soluble		
Thermal decomposition		> 170 °C		
log P(oct):	(20 °C)	-1.72		(anhydrous substance)

10. Stability and reactivity*Conditions to be avoided*

Strong heating.

Substances to be avoided

metals, oxidizing agent, bases, reducing agents.

Hazardous decomposition products

not known to date

Further information

releases water of crystallization when heated.

11. Toxicological information*Acute toxicity*LD₅₀ (oral, rat): 3000 mg/kg (anhydrous substance).*Subacute to chronic toxicity*

No impairment of reproductive performance in animal experiments.

No teratogenic effect in animal experiments.

Bacterial mutagenicity: Ames-Test: negative.

Further toxicological information

Substance which occurs in the human body under physiological conditions.

After inhalation of dust: Irritation symptoms in the respiratory tract.

After skin contact: Slight irritations.

After eye contact: Irritations.

After swallowing of large amounts: Irritations of: mucous membranes (stomach); coughing, pain, bloody vomiting.

Further data

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

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Product name: Citric acid monohydrate cryst. extra pure Ph Eur,BP,USP,E 330

12. Ecological information

Biologic degradation:
Biodegradation: >98 % /2 d Zahn-Wellens test;
Easily eliminable.

Behavior in environmental compartments:
Distribution: log p(o/w): -1.72 (20 °C) (anhydrous substance);
No bioaccumulation is to be expected (log P(o/w) <1).

Ecotoxic effects:
Biological effects: Harmful effect due to pH shift.
Fish toxicity: *L.idus* LC₅₀: 440-760 mg/l /96 h (anhydrous substance);
Daphnia toxicity: *Daphnia magna* EC₅₀: ~120 mg/l /72 h (anhydrous substance).
Maximum permissible toxic concentration:
Protozoa: *E.sulcatum* EC₅: 485 mg/l /72 h (anhydrous substance);
Bacterial toxicity: *Ps.putida* EC₅: >10000 mg/l /16 h (anhydrous substance); *M.aeruginosa* EC₅: 80 mg/l /8 d (anhydrous substance);
Algal toxicity: *Sc.quadricauda* IC₅: 640 mg/l /7 d (anhydrous substance);

Further ecologic data:
Degradability:
BOD: 0.481 g/g (for the monohydrate);
TOD: 0.686 g/g (for the monohydrate);
COD: 0.685 g/g (for the monohydrate).

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product:

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Entire package: not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol:	Xi	Irritant
R-phrases:	36	Irritating to eyes.
S-phrases:	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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16. Other information

Change in labelling.

General update.

Regional representation:

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1. Identification of the substance/preparation and of the company/undertaking*Identification of the product*

Catalogue No.: 101905

Product name: Silica gel granules, desiccant ~ 0,2 - 1 mm

Manufacturer/supplier identification

Company: Merck KGaA * 64271 Darmstadt * Germany * Tel: +49 6151 72-0

Emergency telephone No.: Please contact the regional Merck representation
in your country.**2. Composition/information on ingredients**

silicon dioxide amorphous.

CAS-No.: 7631-86-9

M: 60.09 g/mol

EC-No.: 231-545-4

Formula Hill: O₂Si**3. Hazards identification**

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with water.

After eye contact: rinse out with water.

After swallowing (large amounts): consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media:

In adaption to materials stored in the immediate neighbourhood.

Special risks:

Non-combustible.

6. Accidental release measures

Person-related precautionary measures:

Avoid inhalation of dusts.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

7. Handling and storage*Handling:*

Protect from moisture.

Storage:

Tightly closed. Dry. Storage temperature: no restrictions.

Merck Safety Data SheetAccording to EC Directive
91/155/EECCatalogue No.: 101905
Product name: Silica gel granules, desiccant ~ 0,2 - 1 mm**8. Exposure controls/personal protection***Specific control parameter**German regulations*

MAK Germany (max. workplace conc.)

Name	Silica, amorphous	
Value	4 mg/m ³	inhalable dust
Embryotoxic	cat. C no risk expected by maintaining TLV	

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection: Use recommended

Industrial hygiene:

Wash hands after working with substance.

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form:	solid	
Colour:	brownish	
Odour:	odourless	
pH value	not available	
Melting point	not available	
Boiling point	not available	
Ignition temperature	not available	
Flash point	not available	
Explosion limits	lower	not available
	upper	not available
Density	not available	
Bulk density	~ 750-800 kg/m ³	
Solubility in water	(20 °C)	insoluble
Particle size	~ 2-5 mm	

10. Stability and reactivity*Conditions to be avoided*

no information available

Substances to be avoided

halogen oxides, hydrogen halides, light metals / heat, xenon hexafluoride, sodium / heat.

Hazardous decomposition products

no information available

Catalogue No.: 101905
Product name: Silica gel granules, desiccant ~ 0,2 - 1 mm

11. Toxicological information*Acute toxicity*

Quantitative data on the toxicity of this product are not available.

Subacute to chronic toxicity

An embryotoxic effect need not be feared when the threshold limit value is observed.

Further toxicological information

This is a generally physiologically inert substance that displays no hazardous properties after oral intake and skin contact and after inhalation of its dusts as long as the total dust limit for silicic acid is adhered to. Intensive contact with the eye may lead to irritation symptoms.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations*Product:*

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information*Labelling according to EC Directives*

Symbol: ---

R-phrases: ---

S-phrases: ---

Merck Safety Data Sheet

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91/155/EEC

Catalogue No.: 101905
Product name: Silica gel granules, desiccant ~ 0,2 - 1 mm

16. Other information

Regional representation:

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Safety Data Sheet

MERCK

According to EC Directive 91/155/EEC

Date of issue: 03.03.2002 Supersedes edition of 30.10.2001

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

Identification of the product

Catalogue No.: 100983

Product name: Ethanol absolute GR for analysis ACS,ISO

Company/undertaking identification

Company: Merck KGaA * 64271 Darmstadt * Germany * Tel: +49 6151 72-0

Emergency telephone No.: Please contact the regional Merck representation in your country.

2. Composition/information on ingredients

Synonyms

Ethyl alcohol, Spirit, Spirit of wine

CAS-No.: 64-17-5

EC-Index-No.: 603-002-00-5

M: 46.07 g/mol

EC-No.: 200-578-6

Formula Hill: C₂H₆O

Chemical formula: C₂H₅OH

3. Hazards identification

Highly flammable.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: immediately make victim drink plenty of water. Consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media:

CO₂, foam, powder.

Special risks:

Combustible. Vapours heavier than air. Forms explosive mixtures with air at ambient temperatures.

Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information:

Cool container with spray water from a safe distance. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater. Keep away sources of ignition.

Merck Safety Data SheetAccording to EC Directive
91/155/EECCatalogue No.: 100983
Product name: Ethanol absolute GR for analysis ACS,ISO**6. Accidental release measures**

Person-related precautionary measures:
Do not inhale vapours/aerosols. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures:
Do not allow to enter sewerage system; risk of explosion!

Procedures for cleaning / absorption:
Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

Notes for prevention of fire and explosion:
Keep away from sources of ignition. Take measures to prevent electrostatic charging.

Storage:

Tightly closed. In a well-ventilated place. At +15°C to +25°C.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when vapours/aerosols are generated. Filter A (acc. to DIN 3181) for vapours of organic compounds

Eye protection: required

Hand protection: required

Industrial hygiene:

Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance.

9. Physical and chemical properties

Form:	liquid		
Colour:	colourless		
Odour:	alcohol-like		
pH value			
at 10 g/l H ₂ O	(20 °C)	7.0	
Viscosity dynamic	(20 °C)	1.2	mPa*s
Melting point		-114.5	°C
Boiling point		78.3	°C
Ignition temperature		425	°C
Flash point		12	°C e.c.
Explosion limits	lower	3.5	Vol%
	upper	15	Vol%
Vapour pressure	(20 °C)	59	hPa

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Product name: Ethanol absolute GR for analysis ACS,ISO

Relative vapour density		1.6
Density	(20 °C)	0.790-0.793g/cm ³
Solubility in		
water	(20 °C)	soluble
organic solvents		soluble
log Pow:		-0.32
Bioconcentration factor		0.66

10. Stability and reactivity*Conditions to be avoided*

Heating.

Substances to be avoided

alkali metals, alkaline earth metals, alkali oxides, strong oxidizing agents, halogen-halogen compounds, CrO₃, chromyl chloride, ethylene oxide, fluorine, perchlorates, potassium permanganate / sulfuric acid, perchloric acid, permanganic acid, phosphorus oxides, nitric acid, nitrogen dioxide, uranium hexafluoride, hydrogen peroxide.

Hazardous decomposition products

no information available

Further information

highly inflammable;
unsuitable working materials: various plastics, rubber;
Explosible with air in a vaporous/gaseous state.

11. Toxicological information*Acute toxicity*

LC₅₀ (inhalation, rat): >8000 mg/l /4 h.
LD₅₀ (dermal, rabbit): >20000 mg/kg.
LD₅₀ (oral, rat): 6200 mg/kg.

Specific symptoms in animal studies:

Eye irritation test (rabbit): Slight irritations.

Skin irritation test (rabbit): Slight irritations.

Subacute to chronic toxicity

Sensitization:

Sensitisation test (Magnusson and Kligman): negative.

An embryotoxic effect need not be feared when the threshold limit value is observed.

Bacterial mutagenicity: Salmonella typhimurium: negative.

Bacterial mutagenicity: Ames test: negative.

Catalogue No.: 100983
Product name: Ethanol absolute GR for analysis ACS,ISO

Further toxicological information

After inhalation of vapours: slight mucosal irritations. Risk of absorption.
After skin contact: After long-term exposure to the chemical: dermatitis.
After eye contact: Slight irritations.
After swallowing of large amounts: nausea and vomiting.
Systemic effects: euphoria.
After absorption of large quantities: dizziness, inebriation, narcosis, respiratory paralysis.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Abiotic degradation:
Rapid degradation. (air)

Biologic degradation:
Biodegradation: 94 % modified OECD screening test;
Readily biodegradable.

Behavior in environmental compartments:
Distribution: log p(o/w): -0.32;
No bioaccumulation is to be expected (log P(o/w) < 1).

Ecotoxic effects:
Biological effects:
In high concentrations: Harmful effect on aquatic organisms. When used properly, no impairments in the function of waste- water-treatment plants are to be expected.
Fish toxicity: *L. idus* LC₅₀: 8140 mg/l /48 h;
Daphnia toxicity: *Daphnia magna* EC₅₀: 9268-14221 mg/l /48 h;
Maximum permissible toxic concentration:
Algal toxicity: *Sc. quadricauda* IC₅: 5000 mg/l /7 d; Bacterial toxicity: *Ps. putida* EC₅: 6500 mg/l /16 h; Protozoa: *E. sulcatum* EC₅: 65 mg/l /72 h.

Further ecologic data:
BOD₅: 0.93-1.67 g/g; COD: 1.99 g/g; TOD: 2.10 g/g; BOD 74 % from TOD /5 d; COD 90 % from TOD;

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations*Product:*

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

Merck Safety Data SheetAccording to EC Directive
91/155/EECCatalogue No.: 100983
Product name: Ethanol absolute GR for analysis ACS,ISO**14. Transport information**

Land transport GGVs, GGVE, ADR, RID
Classification 3/3b
Name 1170 ETHANOL (ETHYLALKOHOL)

Transport by river ADN, ADNR
Classification not tested

Transport by sea IMDG, GGVSee
Classification 3/UN 1170/PG II
Ems 3-06
Name ETHANOL

Transport by air ICAO, IATA
Classification 3/UN 1170/PG II
Name ETHANOL

The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). Possible national deviations in other countries are not considered.

THESE TRANSPORT DATA APPLY TO THE ENTIRE PACK !

15. Regulatory information*Labelling according to EC Directives*

Symbol:	F	Highly flammable
R-phrases:	11	Highly flammable.
S-phrases:	7-16	Keep container tightly closed. Keep away from sources of ignition - No smoking.
EC-No.:	200-578-6	EC label

16. Other information

Reduced labelling on the container due to small quantity.

Chapter 8: specific control parameter.

Chapter 14: transport information.

General update.

Regional representation:

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1. Identification of the substance/preparation and of the company/undertaking*Identification of the product*

Catalogue No.: 106161

Product name: Murexide (ammonium purpurate) metal indicator ACS

Manufacturer/supplier identification

Company: Merck KGaA * 64271 Darmstadt * Germany * Tel: +49 6151 72-2440

Emergency telephone No.: Please contact the regional Merck representation in your country.

2. Composition/information on ingredients*Synonyms*

Ammonium purpurate, acid

CAS-No.: 3051-09-0

M: 284.19 g/mol

EC-No.: 221-266-6

Molecular formula: $C_8H_8N_6O_6$
(Hill)**3. Hazards identification**

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open.

After swallowing: make victim drink plenty of water, induce vomiting, summon doctor.

5. Fire-fighting measures

Suitable extinguishing media:

Water, foam, powder.

Special risks:

Combustible.

Other information:

Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures:

Avoid generation of dusts; do not inhale dusts.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up dry. Forward for disposal. Clean up affected area.

Merck Safety Data SheetAccording to EC Directive
91/155/EECCatalogue No.: 106161
Product name: Murexide (ammonium purpurate) metal indicator ACS**7. Handling and storage***Handling:*

No further requirements.

Storage:

Dry. Tightly closed. No further requirements. Storage temperature: no restrictions.

Tightly closed.

8. Exposure controls/personal protection*Personal protective equipment:*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection: required

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form:	solid			
Colour:	dark brown			
Odour:	odourless			
pH value at 1 g/l H ₂ O	(20 °C)	~ 5		
Melting point		not available		
Boiling point		not available		
Ignition temperature		not available		
Flash point		not available		
Explosion limits	lower upper	not available not available		
Density		not available		
Bulk density		~ 330	kg/m ³	
Solubility in water	(20 °C)	~ 1	g/l	
ethanol	(20 °C)			insoluble
Thermal decomposition		> 250	°C	

Merck Safety Data Sheet

According to EC Directive
91/155/EEC

Catalogue No.: I06161
Product name: Murexide (ammonium purpurate) metal indicator ACS

10. Stability and reactivity

Conditions to be avoided

no information available

Substances to be avoided

no information available

Hazardous decomposition products

no information available

11. Toxicological information

Acute toxicity

Quantitative data on the toxicity of this product are not available.

Further toxicological information

We have no description of any toxic symptoms.
Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Further data

The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product:

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

Merck Safety Data Sheet

According to EC Directive
91/155/EEC

Catalogue No.: 106161
Product name: Murexide (ammonium purpurate) metal indicator ACS

15. Regulatory information

Labelling according to EC Directives

Symbol: ---

R-phrases: ---

S-phrases: ---

16. Other information

Reason for alteration

General update.

Change in product name.

Regional representation:

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