Quinic acid



Date of issue:	07.12.2012
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Version:	12
Replaces version:	11

1.1. Produc	t identifier	e substance/mixture and of the c		
Product form	a identifier	: Substance		
Substance name		: Quinic acid		
		: 1.3.4.5-tetrahydroxycyclohexane	o rhovalio, o oid	
hemical name JPAC name			,	
C No		: (1S, 3R, 4S, 5R)- 1,3,4,5-Tetrahy : 201-072-8	droxy-cyclonexanecarboxylic ac	Ju
AS No		: 77-95-2		
REACH registratio	on No	: 01-2120104723-67-xxxx		
Formula		: C7H12O6		
Synonyms		: D-(-)-Quinic acid; Cyclohexaneca	proxylic acid 1345-tetrahydro	$x_{1} = (1a 3R 4a 5R)_{-}$
	nt identified uses of the	e substance or mixture and uses advised	• •	xy-, (10,010,+0,010)-
	nt identified uses		rugumot	
lain use categor		: Industrial use. Professional use		
lse of the substa	•	: Intermediate		
		Laboratory chemicals		
		Other dielectric material		
		Pharmaceuticals		
		Food additive		
.2.2. Uses a	dvised against			
	rmation available			
.3. Details	of the supplier of the s	safety data sheet		
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GHS07 Signal word (CLP) : Warning Hazard statements (CLP) : H319 - Causes serious eye irritation. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves, protective clothing, eye protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove Precautionary statements (CLP) contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention.

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2.3. Other hazards

Contains no substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance name	: Quinic acid		
EC No	: 201-072-8		
CAS No	: 77-95-2		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quinic acid	(CAS №) 77-95-2 (EC №) 201-072-8 (REACH №) 01-2120104723-67-xxxx	≥ 98.0	Eye Irrit. 2, H319

Full text of H-statements: see section 16	
3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Drink plenty of water as a precaution.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate medi	cal attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Adapt extinguishing agent to suit the environment. Water spray. Foam. Carbon dioxide. Dry extinguishing powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂).
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit (EN 469).
SECTION 6: Accidental release me	easures
	equipment and emergency procedures
General measures	: Stop leak if safe to do so. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe dust.
6.1.1. For non-emergency personnel	

Emergency procedures

: Only qualified personnel equipped with suitable protective equipment may intervene.



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6.1.2. For emergency responders Protective equipment	: Use personal protective equipment as requi insufficient ventilation.	red. Wear suitable respiratory	equipment in case of
6.2. Environmental precautions			
Prevent entry to sewers and public waters. Notify	authorities if substance enters sewers or public	c waters.	
6.3. Methods and material for containmen			
Methods for cleaning up	: Take up mechanically (sweeping, shovelling Minimize generation of dust. Dispose of in a		
6.4. Reference to other sections			
Concerning personal protective equipment to use,	see section 8. Concerning disposal eliminatio	n after cleaning, see section 1	3.
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Provide local exhaust or general room venti and eyes. Keep container closed when not		void contact with skin
Hygiene measures	: Handle in accordance with good industrial h eat, drink or smoke. Wash hands and other eating, drinking or smoking and when leavir before reuse.	exposed areas with mild soap	and water before
7.2. Conditions for safe storage, including	g any incompatibilities		
Storage conditions	: Store in original container. Store tightly clos sunlight. Protect from moisture.	ed in a dry and cool place. Ke	ep out of direct
Storage temperature	: 15 - 30 °C		
Prohibitions on mixed storage	: Keep away from food, drink and animal feed	dingstuffs.	
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/perso	nal protection		
8.1. Control parameters			
Quinic acid (77-95-2)			
PNEC (Water)			
PNEC aqua (freshwater)	0.116 mg/l		
PNEC aqua (marine water)	0.0116 mg/l		
PNEC aqua (intermittent, freshwater)	1.16 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.0989 mg/kg dwt		
PNEC sediment (marine water)	0.00989 mg/kg dwt		

PNEC	; soil	
8 2	Exposure controls	

Appropriate engineering controls:

Use adequate ventilation. Avoid dust formation.

Hand protection:

PNEC (Soil)

Wear suitable gloves (EN 374). Latex. Nitrile rubber. Butyl rubber. 0.4 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

Eye protection:

Chemical goggles or safety glasses (EN 166).

Skin and body protection:

Wear suitable protective clothing (EN 344).

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection is recommended. Dust production: dust mask with filter type P2

Environmental exposure controls:

0.0987 mg/kg dwt

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Avoid release to the environment.

SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and o		
Physical state	: Solid, powder	
Colour	: White	
Odour	: Odourless	
Melting point/freezing point	: 162 - 166 °C	
Boiling point or initial boiling point and boiling range	: No data available	
Flammability	: No data available	
Lower and upper explosion limit	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
pH	: > 2.0	
Kinematic viscosity	: Not applicable	
Solubility	: Water: 400 g/l	
Partition coefficient n-octanol/water (log value)	: -2.45	
Vapour pressure	: No data available	
Density and/or relative density	: 1.637 g/cm ³	
Relative vapour density	: No data available	
Particle characteristics	: No data available	
9.2. Other information		
9.2.1. Information with regard to physical haz	zard classes	
Explosive properties	: The substance is not explosive. Dust can form an explosive mixture with air.	
Oxidising properties	: The substance has no oxidising properties.	
9.2.2. Other safety characteristics		
Molecular mass	: 192.2 g/mol	
Minimum ignition energy	: 100 - 300 mJ	
Bulk density	: 670 - 750 kg/m³	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No dangerous reactions known under normal co	onditions of use.	
10.2. Chemical stability		
Stable under use and storage conditions as reco	ommended in section 7 for a minimum of 5 years.	
10.3. Possibility of hazardous reactions		
None under normal use.		
10.4. Conditions to avoid		
Direct sunlight. High temperature. Quinic acid la	ctone and aromatic phenols are formed.	
10.5. Incompatible materials		
Oxidizing agents.		
10.6. Hazardous decomposition products		
In case of fire: Carbon monoxide. Carbon dioxid		
SECTION 11: Toxicological informat		
	efined in Regulation (EC) No 1272/2008	
Acute toxicity	: Not classified Reserve an available data, the classification criteria are not met	
	Based on available data, the classification criteria are not met	
Quinic acid (77-95-2)	2265 malka (Cualabavanaarbavalia asid)	
LD50 oral rat	3265 mg/kg (Cyclohexanecarboxylic acid)	
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Skin corrosion/irritation	: Not classified		
	Based on available data, the classific	ation criteria are not met	
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: Not classified		
	Based on available data, the classific	cation criteria are not met	
Germ cell mutagenicity	: Not classified		
	Based on available data, the classific	ation criteria are not met	
Carcinogenicity	: Not classified		
Poproductivo toxicity	Based on available data, the classific : Not classified	ation criteria are not met	
Reproductive toxicity	Based on available data, the classific	oction critoria are not mot	
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (single exposure)	Based on available data, the classific	ation criteria are not met	
Specific target organ toxicity (repeated	: Not classified		
exposure)	Based on available data, the classific	ation criteria are not met	
Aspiration hazard	: Not classified		
	Based on available data, the classific	ation criteria are not met	
11.2. Information on other hazards			
11.2.1. Endocrine disrupting properties			
Endocrine disruption for human health	: The substance has no endocrine disi	rupting properties	
11.2.2. Other information			
Potential adverse human health effects and	: Based on available data, the classific	ation criteria are not met	
symptoms			
SECTION 12: Ecological information			
12.1. Toxicity			
Acute aquatic toxicity	: Not classified		
Acute aquatic toxicity Chronic aquatic toxicity	: Not classified : Not classified		
Chronic aquatic toxicity			
Chronic aquatic toxicity Quinic acid (77-95-2)	: Not classified		
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna 		
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna 	32	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna 	a	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna 	32	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2) Persistence and degradability	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna 	a	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2)	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna > 10 mg/l 10 d, Microcystis aeruginos 	a	
Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2) Persistence and degradability	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna > 10 mg/l 10 d, Microcystis aeruginos 	38	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2) Persistence and degradability Biodegradation 12.3. Bioaccumulative potential	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna > 10 mg/l 10 d, Microcystis aeruginos 	Sa	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2) Persistence and degradability Biodegradation	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna > 10 mg/l 10 d, Microcystis aeruginos 	;a	
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Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2) Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Quinic acid (77-95-2) Bioconcentration factor (BCF REACH) Log Pow	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna > 10 mg/l 10 d, Microcystis aeruginos Readily biodegradable. 89.7 % 29 d (OECD 301 B) 3.16 -2.45	Sa	
Chronic aquatic toxicity Quinic acid (77-95-2) LC50 fish EC50 daphnia NOEC chronic crustacea NOEC chronic algae 12.2. Persistence and degradability Quinic acid (77-95-2) Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Quinic acid (77-95-2) Bioconcentration factor (BCF REACH) Log Pow Bioaccumulative potential 12.4. Mobility in soil	 Not classified > 100 mg/l 96 h (Shikimic acid) > 5 g/l 48 h, Daphnia magna > 5 g/l 48 h, Daphnia magna > 10 mg/l 10 d, Microcystis aeruginos Readily biodegradable. 89.7 % 29 d (OECD 301 B) 3.16 -2.45	;a	
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SECTION 13: Disposal considerat	ions
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: This material and its container must be disposed of as hazardous waste. Do not dispose of wit domestic waste. Do not empty into drains.
Waste disposal recommendations	: Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.
European List of Waste (LoW) code	: 07 00 00 - WASTES FROM ORGANIC CHEMICAL PROCESSES 07 01 00 - wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
Waste code	: The waste code number according to the Ordinance on the European Waste Catalogue (EWC depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.
SECTION 14: Transport information	on
In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Not applicable	

- Transport by sea Not applicable

- Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Safety Data Sheet

according to Regulation (EU) 2020/878

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List).

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List.

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer).

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For this substance a chemical safety assessment was not carried out.

SECTION 16: Other information	
Data source	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Changes compared to earlier Versions	· Section 1.1

Changes compared to earlier Versions

Section 1.1 Section 15.1.1

Abbreviations and acronyms:

/ abieviations an				
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road			
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures			
DMEL	Derived Minimal Effect Level			
DNEL	Derived No-Effect Level			
EC50	The effective concentration of substance that causes 50 % of the maximum response (Median Effective Concentration)			
IATA	International Air Transport Association			
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea			
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)			
LD50	Lethal Dose to 50 % of a test population (Median Lethal Dose)			
LOAEL	Lowest Observed Adverse Effect Level			
NOAEC/L	No Observed Adverse Effect Concentration/Level			
NOEC/L	No Observed Effect Concentration/Level			
OECD	Organisation for Economic Cooperation and Development			
PBT	Persistent, Bioaccumulative and Toxic substance			
PNEC	Predicted No-Effect Concentration			
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals			
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail			
SDS	Safety Data Sheet			
STP	Sewage Treatment Plant			



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UFI	Unique Formula Identifier		
vPvB	Very Persistent and Very Bioaccumulative		
Full text of H- a	nd EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H319	Causes serious eye irritation.		

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.