

MATERIAL SAFETY DATA SHEET

4144 CITRIC ACID MONOHYDRATE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

SUPPLIER: SDC ENTERPRISES LIMITED
 Unit 29 Pitcliffe Way Industrial Estate
 Upper Castle Street
 Bradford
 West Yorkshire BD5 7SG

EMERGENCY TELEPHONE: Tel: 01274 750160, Fax: 01274 750162

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC No	Weight %	CAS-No	Classification	GHSCLAS	REACH Reg No
Citric Acid	EEC No 201-069-1	>95	77-92-9	Xi;R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	

3. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

REGULATION (EC) No 1272/2008

Skin Corrosion / Irritation	Category 1
Serious Eye Damage / Eye Irritation	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

CLASSIFICATION ACCORDING TO EU DIRECTIVES 67/548/EEC or 1999/EC

SYMBOL(S) Xi – Irritant

R-PHRASE(S) None

RISK COMBINATION PHRASES R36/37/38 – Irritating to eyes, respiratory system and skin

LABEL ELEMENTS



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SIGNAL WORD

Danger

HAZARD STATEMENTS

H318 – Causes serious eye damage
H335 – May cause respiratory irritation
H314 – Causes severe skin burns and eye damage

PRECAUTIONARY STATEMENTS – EU (§28, 1272/2008)

P301+P330+P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P280 – Wear eye protection / face protection
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 – Immediately call a POISON CENTRE or doctor / physician
P261 – Avoid breathing dust / fume / gas / mist / vapours / spray

OTHER HAZARDS

No information available

4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention
Ingestion	Do not induce vomiting. Obtain medical attention
Inhalation	Move to fresh air if breathing is difficult, give oxygen. Obtain medical attention.
Notes to Physician	Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapours.

Advice for fire fighters

As in any fire, wear self contained breathing apparatus pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapours.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental precautions

Should not be released into the environment

Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Conditions for safe storage

Keep containers tightly closed in a dry, cool and well ventilated place.

Specific end uses

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye Protection

Safety glasses with side shields

Hand Protection

Protective gloves

Skin and Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

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Environmental Exposure
Controls No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder
Appearance: White
Odour/Taste: Odourless
pH: 1.7 (10% Solution)
Boiling Point/Range: No information available. °C
Melting Point/Range: 153°C / 307.4°F
Flash Point: 100°C / 212°F
Water Solubility: 750 g/L (20°C)
Molecular Formula: C₆ H₈ O₇
Molecular Weight: 192.13

10. STABILITY AND REACTIVITY
Reactivity
Chemical Stability

Stable under normal conditions

Possibility of Hazardous Reactions
Hazardous Polymerization

Hazardous polymerisation does not occur

Hazardous Reactions

None under normal processing

Conditions to Avoid

Incompatible products. Excess heat. Avoid dust formation

Incompatible Materials

Strong oxidising agents

Hazardous Decomposition Products

 Carbon monoxide (CO). Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION
Information on Toxicological Effects
Acute Toxicity
Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Citric Acid	3000 mg/kg (Rat)		

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Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Target Organs	Skin Respiratory System Eyes
Other Adverse Effects	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	None known

12. ECOLOGICAL INFORMATION

Toxicity Ecotoxicity Effects

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Citric Acid		Leuciscus idus: LC50 = 440-760 mg/L/96h	Photobacterium phosphoreum: EC50 = 14 mg/L/15 min	EC50 = 120 mg/L/72h

Persistence and Degradability

No information available

Bioaccumulative Potential

No information available

Component	log Pow
Citric Acid	0

Mobility in Soil

No information available

Results of PBT and vPvB Assessment

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from Residues / Unused

Products

Dispose in accordance with local regulations

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

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IMDG/IMO Not regulated

ADR Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

International Inventories

Component	EINCS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Citric Acid	201-069-1	-		X	X	-	X	X	X	X	KE-20831 X

Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
EINCS / ELINCS	European Inventory Lists
DSL / NDSL	Canadian Domestic Substances List / Non Domestic Substances List
PICCS	Philippines Inventory of Chemicals and Chemical Substances
ENCS	Japan Existing and New Chemical Substances
CHINA	China Inventory of Existing Chemical Substances
AICS	Inventory of Chemical Substances
KECL	Existing and Evaluated Chemical Substances

16. OTHER INFORMATION

Text of R Phrases Mentioned in Section 2-3

R36/37/38 – Irritating to eyes, respiratory system and skin

Revision Date 12.11.2014

SDS ISSUE No: 3

Replaces SDS 01.02.2011

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

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