

AKÖMA™

FROM THE HEART

Material Safety Data Sheet

EU Regulation: 1907/2006, Article 31

SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1					
Product Identification					
Product Name	Citric Acid Food Grade				
Biological Definition	Citric Acid Anhydrous				
INCI Name	Citric Acid				
CAS-No	77-92-9	EC No.	201-069-1	EINECS No.	201-069-1
REACH registration number	01-2119457026-42-0006				
1.2					
Relevant identified uses of the substance or mixture and uses advised against	Application of the substance / the preparation: Intermediate Formulation Detergents and cleaning products Agricultural applications Personal care products Paper industry Construction products Polymers and plastics Oil industry Textile industry Paints and coatings Photography products Laboratory reagents Water treatment Treatment of metal surfaces Medical devices				
1.3					
Details of the supplier of the safety data sheet					
Company Address	Akoma International (UK) LTD Unit 9A Sawley Park Nottingham Road Derby DE21 6AS Tel: +44 (0) 1332 613 967 United Kingdom				
Email	technical@akoma.biz				
1.3					
Details of the supplier of the safety data sheet					

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Citric Acid Food Grade - MSDS

Emergency Contacts	Mr. Wynn Mensah – Tel: 01332 613 967
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SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture	
Classification (EU1272/2008)	Eye Irrit. 2 H319 Causes serious eye irritation.
2.2 Label Elements	
Label in accordance with Regulation (EC) No 1272/2008.	
The substance is classified and labelled according to the CLP regulation.	
Hazard pictograms:	 GHS07
Signal Word	Warning
Hazards Statement	H319 Causes serious eye irritation.
Precautionary Statements	P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/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. P337+P313 If eye irritation persists: Get medical advice/attention.
2.3 Other Hazards	
Results of PBT and vPvB assessment PBT	No PBT.
vPvB	No vPvB.

SECTION 3: Composition of Ingredients

3.1 Substances	CAS Number. Description. 77-92-9 Citric Acid Anhydrous Identification number(s) EC number: 201-069-1
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SECTION 4: First Aid Measures

4.1 Description of First Aid Measures	
After inhalation	Move patient to fresh air, if symptoms persist consult a doctor.
After skin contact	Immediately rinse with water. If skin irritation continues, consult a doctor.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
4.2 Most important symptoms & effects (Acute & Delayed)	Serious eye damage/eye irritation: Eye Irrit. 2
4.3	No further relevant information available.

Indication of any immediate medical attention or special treatment required	
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SECTION 5: Fire Fighting Measures

5.1 Extinguishing material	Suitable extinguishing agents: CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2 Special hazards arising from the substance Or mixture	Carbon dioxide (CO ₂) Carbon monoxide (CO)
5.3 Advice for fire-fighters	Protective equipment: Wear fully protective suit. Wear self-contained respiratory protective device.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Ensure adequate ventilation.
6.2 Environmental precautions	Do not allow to enter sewers/ surface or ground water.
6.3 Methods & material for containment and cleaning up	Send for recovery or disposal in suitable receptacles. Retrieve the product by mechanical means. Dispose contaminated material as waste according to item 13.
6.4 References 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 & Storage

7.1 Precautions for safe-handling	Use only in well ventilated areas. Provide suction extractors if dust is formed. Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Information about fire - and explosion protection: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities	Requirements to be met by storerooms and receptacles: Store in a cool and dry place. Provide ventilation for receptacles. Store only in the original receptacle. Information about storage in one common storage facility: Store away from oxidising agents. Further information about storage conditions: Keep container tightly sealed.
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure Controls & Personal Protection

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8.1 Control Parameters	Ingredients with limit values that require monitoring at the workplace: Not required.
PNECs	<p>PNEC</p> <p>0.44 mg/L (Water (Freshwater)) 0.044 mg/L (Water (Marine Water)) >1000 mg/L (Sewage Treatment Plant (STP)) 3.46 mg/kg sedim. dw (Sediment (Marine Water)) 34.6 mg/kg sedim. dw (Sediment (Freshwater)) 33.1 mg/kg soil dw (Soil)</p>
Additional information	The lists valid during the making were used as basis.
8.2 Exposure Controls	
Personal protective equipment	<p>General protective and hygienic measures: Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working.</p>
Hand Protection	 <p>Protective gloves. Material of gloves: Rubber, PVC or neoprene gloves recommended.</p>
Respiratory Equipment	Suitable respiratory protective device recommended.
Eye protection	 <p>Tightly sealed goggles (EN 166).</p>
Body protection	Protective work clothing.

SECTION 9: Physical & Chemical Properties

9.1 Physical & Chemical Properties	
Appearance	Powder, Crystalline.
Colour	White.
Odour	Odourless.
Odour threshold	Not determined
pH-value (100 g/l)	1.7
Melting point/Melting range	153 °C
Boiling point/Boiling range	Decomposes before boiling
Flash point	Not applicable.
Flammability (solid, gaseous)	Product is not flammable.
Ignition temperature	Not applicable.
Decomposition temperature	Not determined.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	Lower Not determined. Upper Not determined.
Oxidising properties	None
Vapour pressure at 25 °C	2.21*10 ⁻⁶ Pa
Density	Not determined.
Relative density at 20 °C	1.665
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water at 20 °C	590 g/l
Alcohols	Partly soluble.
Partition coefficient (n-octanol/water)	-0.2 to -1.8 log Pow

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Viscosity	Dynamic: Not applicable. Kinematic: Not applicable.
9.2 Other Information	No further relevant information available.

SECTION 10: Stability & Reactivity

10.1 Reactivity	No data available.
10.2 Chemical stability	Thermal decomposition / conditions to be avoided: Keep away from heat and direct sunlight.
10.3 Possibility of hazardous reactions	Reacts with alkali (lyes).
10.4 Conditions to avoid	Strong oxidizing agents.
10.5 Incompatible materials	Protect from moisture. Avoid strong oxidants, strong alkalis and strong acids. Sodium nitrite, potassium nitrite
10.6 Hazardous decomposition products	Carbon dioxide Carbon monoxide

SECTION 11: Toxicological Information

11.1 Toxicological effects	
Acute Toxicity	Based on available data, the classification criteria are not met. LD/LC50 values: Oral LD50 5400 mg/Kg bw (Mouse) (OECD 401) Dermal LD50 >2000 mg/Kg bw (Rat) (OECD 402)
Skin irritation	Based on available data, the classification criteria are not met.
Eye damage or irritation	Causes serious eye irritation.
Respiratory or skin sensitivity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
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.

SECTION 12: Ecological Information

SECTION 13: Disposal Information	
13.1 Waste treatment methods	<p>NOEC: 420 mg/L (algae) NOEC: 200 mg/L (Daphnia magna)</p> <p>Recommendation: Regularly use product to reach sewage system.</p> <p>Uncleaned packaging: Readily biodegradable</p> <p>Recommendation: Disposal must be made according to official regulations. Does not accumulate in organisms Packaging that may not be cleaned must be disposed of in the same manner as the product.</p>
12.4 Mobility in soil	pKa: 3.13, 4.76 and 6.4 at 25 °C
12.5 Results of PBT & VPVB assessment	PBT: No PBT. vPvB: No vPvB.
12.6 Other adverse effects	No further relevant information available.

SECTION 14: Transport Information	
14.1 Transport Information	
UN Number ADR, ADN, IMDG, IATA	Not applicable.
UN proper shipping name ADR, ADN, IMDG, IATA	Not Applicable.
1 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Not Applicable.
Packing group ADR, IMDG, IATA	Not Applicable.
Environmental hazards Marine pollutant	Not Applicable.
Special precautions for user	Not Applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Applicable.
SECTION 15: Regulatory Information	
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.	
15.2 Chemical Safety Assessment	
A Chemical Safety Assessment has been carried out.	

SECTION 16: Other Information

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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.

Abbreviations & Acronyms:	
MSDS	Material Safety Data Sheet.
IATA	International Air Transport Association
CAS	Chemical Abstract Service.
EINECS	European Inventory of Existing Commercial Chemical Substances
IMDG	International Maritime code for Dangerous Goods.
ADR	Accord European sur le transport des marchandises Dangereuses par Route (European Agreement concerning the international Carriage of Dangerous goods by Road).
ADN	International Carriage of Dangerous Goods by Inland Waterways.
PNEC	Predicted No-Effect Concentration (REACH)
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
Eye Irrit. 2	Serious eye damage/eye irritation – Category 2

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.

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