

SAFETY DATA SHEET



DS-40

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

Product name : DS-40
Code : 61026
Head Office : **Cookson Electronics** **Manufacturer** : Cookson Electronics Assembly
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Material uses : Water-conditioning agent.

2. Composition/information on ingredients

Substance/preparation : Preparation

Chemical name*	CAS no.	%	EC Number	Classification
Europe citric acid, monohydrate See section 16 for the full text of the R Phrases declared above	5949-29-1	60 - 80	201-069-1	Xi; R36

* Occupational Exposure Limit(s), if available, are listed in Section 8

* The classifications listed, indicate the potential hazards of the ingredients

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi; R36

Effects and symptoms

- Inhalation** : Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterised by burning, sneezing and coughing. Overexposure by inhalation may cause respiratory irritation.
- Ingestion** : May be fatal if swallowed. May cause burns to mouth, throat and stomach.
- Skin contact** : Slightly hazardous in case of skin contact (irritant).
- Eye Contact** : Hazardous in case of eye contact (irritant).
- Toxicity data** : Not available.

4. First aid measures

First-Aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention.

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Cold water may be used. Obtain medical attention.

5. Fire-fighting measures

- Extinguishing media** : Recommended: alcohol resistant foam, CO₂, powders, water spray.
Not to be used : waterjet.
- Hazardous thermal decomposition products** : These products are carbon oxides (CO, CO₂).
- Special fire-fighting procedures** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

- Personal Precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Environmental precautions and clean-up methods** : Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. **Neutralise the residue with a dilute solution of sodium carbonate.** Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

- Handling** : Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Storage** : Do not reuse container.
- Packaging materials**
- Recommended** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
- Hygiene measures** : Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Ingredient name

Occupational exposure limits

Europe

Sweden

Denmark

Norway

France

Netherlands

Germany

Finland

United Kingdom (UK)

citric acid, monohydrate

Not available.

Where a MEL has been assigned, exposure should be reduced as low as is reasonably practicable and should not exceed the MEL.

Austria

Switzerland

Belgium

Spain

Personal protective equipment

- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Recommended: particulate filter EN 149:2001 FFP3
- Hand protection** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<1 hour(s) (breakthrough time): disposable vinyl
- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Recommended: safety glasses with side shields EN 166 1F
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Additional Information** : Not available.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Solid.
- Colour** : Off-white.

Important health, safety and environmental information

- pH** : 2 (Conc. (% w/w): 1) [Acidic.]
- Melting point** : 150°C (302°F)
- Flash point** : Closed cup: >200°C (392°F).
- Relative density** : 1.8
- Solubility** : Easily soluble in cold water, hot water.

10. Stability and reactivity

- Stability** : The product is stable.
- Hazardous decomposition products** : These products are carbon oxides (CO, CO₂).

11. Toxicological information

Local effects

- Skin irritation** : Slightly hazardous in case of skin contact (irritant).
- Eye irritation** : Hazardous in case of eye contact (irritant).
- Sensitisation** : Slightly hazardous in case of skin contact (sensitiser).
- Toxicity data** : Not available.

Over-exposure signs/symptoms

12. Ecological information

- Other adverse effects** : No known significant effects or critical hazards.

13. Disposal considerations

- Methods of disposal ; Waste of residues ; Contaminated packaging** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

- Waste classification** : Not applicable.
- European waste catalogue (EWC)** : 16 03 06
- Hazardous waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Irritant

Indication of Danger : Irritant

Risk Phrases : R36- Irritating to eyes.

DS-40

Safety Phrases	: S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves. S56- Dispose of this material and its container at hazardous or special waste collection point.
Product use	: Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use. - Consumer applications, Industrial applications.
EC Statistical classification (Tariff Code)	: 32089091

National regulations

Moderately harmful

Denmark

Additional warning phrases	: Not applicable.
Denmark – Cancer risks	: Not available.
Denmark – Restrictions on use	: Not available.
Statutory order 517 on aerosols	: Not applicable.

Netherlands

K-Klasse	: K4
CPR	: j
SHHR	: 2IZ

Germany

Employment restrictions in accordance with § 15b of the Hazardous Substance Ordinance	: No.
Other Regulations	: TRGS 900
Hazardous incident ordinance	: No.
Ordinance on combustible liquids	: Class: Omitted
Technical instruction on air quality control	: Class III: 0.53%
Hazard class for water	: nwg

16. Other information

Full text of R phrases referred to in sections 2 and 3 - Europe : R36- Irritating to eyes.

Full text of classifications referred to in sections 2 and 3 - Europe : Xi - Irritant

History

Date of printing	: 07/09/2006.
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Prepared by	: Simon Hosken Environmental, Health and Safety Manager

References

The Health and Safety At Work Act 1974, section 6.
Control of Substances Hazardous to Health (CoSHH) Regulations 2002 and its amendments.

Preparation contains solely TSCA and EINECS listed substances.

This safety data sheet has been prepared in accordance with the requirements of the Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 which implement EC Directives 1999/45/EC and 2001/58/EC and their amendments.

Notice to reader

DS-40

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 3

Page: 6/6