Safety data sheet
SolidCitric
Version 4.0
Effective date: 14-02-2023
Revised: 01-09-2026

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier.

Trade name: SolidCitric

Product number: P01-Jupa

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Product use: For cleaning of subsea construction details.

Uses avised against: This product must not be used in applications other than those recommended above, without first seeking the advice of the supplier.

1.3 Details of the Supplier of the safety data sheet

Company:
Jupa AS
Randabergveien 300B
4073 Randaberg
Tlf.: +47 958 28 155

Contact: Endre Birkeland - endre@jupa.no

1.4 Emergency telephone number:
Use your local emergency number.

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture to CLP No 1272/2008/GB CLP.
Eye Irrit. 2, H319, STOT SE 3; H335.

2.2 Label elements CLP No 1272/2008.

Hazard pictograms:



Signal word:
Warning

Hazard statements:
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements:
Prevention:
P261 Avoid breathing dust.
P264 Wash hands thoroughly after handling.
P280 Wear eye protection.

Response:
P305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

Storage:
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Disposal:
P501 Dispose of contents/container to an approved hazardous waste collection station.

Additional labeling:
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2.3 Other hazards.
This product contains no PBT or vPvB substances according to REACH No 1907/2006.
This product does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:
The product is a mixture.

3.2 Mixture:

CAS/EC No	REACH No	Name	Content %	Classification CLP
5949-29-1 / 201-069-1	01-2119457026-42	Citric acid, monohydrate	>99	Eye Irrit. 2, H319, STOT SE 3; H335.

See full text of H-phrases in section 16. Occupational limits are listed in section 8, if these are available.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures.

General information: Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air. Get medical attention if any discomfort continues.

Inhalation: Seek fresh air. Seek medical attention if discomfort/irritation persists.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Rinse immediately with plenty of water for at least 20 minutes. Remove any contact lenses and open eyes wide apart. If irritation persists, get medical attention.

Ingestion: Immediately rinse mouth, then drink plenty of water. Keep the person under surveillance. If person becomes uncomfortable seek hospital. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed:

Causes serious eye irritation.
May cause respiratory irritation.
Contact may cause redness and irritation. Especially in case of repeated or prolonged exposure.
Splashes/exposure of solution in the eyes may cause irritation and smarting.
Inhalation of dust: May cause respiratory tract irritation.
Ingestion: May cause burning sensation in the mouth or throat, and stomach pain.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media: Extinguishing media: Water fog, dry chemical, carbon dioxide and foam.

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

Not flammable but may burn at high temperatures.

5.3 Advice for firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact. Cool containers exposed to flames with water from the side, until well after the fire is out.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing - see section 8.
Avoid contact with eyes.
Avoid breathing dust.

6.2 Environmental precautions:

Avoid discharge to lakes, streams, sewers, etc.

6.3 Methods and material for containment and cleaning up:

Small leaks: Sweep up carefully small leaks, use a vacuum cleaner. Rinse with plenty of water. Small leaks of solution: (>50 L) to be diluted with plenty of water, or taken up with absorbent.
Large leaks: Alert the appropriate authorities if lager spills occur.

6.4 Reference to other sections:

See section 8 for personal protection.
See section 13 for disposal.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Wear appropriate protective clothing - see section 8.
Avoid contact with skin and eyes.
Avoid breathing dust. Ensure adequate ventilation.
Explosion hazard: Avoid dust formation; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source causes a potential dust explosion hazard. Shut off all possible sources of ignition.
Take action to prevent static discharges.
Follow good chemical hygiene. Eye wash facility should be available.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, dry and well-ventilated place.
Keep away from sources of ignition.
Keep away from alkalis, oxidation agents and food.
Protected from humidity and water.

7.3 Specific end use(s): This product should only be used for applications described in section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
Occupational exposure limits WEL (Great Britain):

No substances with occupational exposure limits.

DNEL / PNEC:
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8.2 Exposure controls

Appropriate technical measures:

Airborne concentrations must be kept as low as possible. Use for example an exhaust system if the normal air flow in the work room is not sufficient.

General information: Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face. Make sure that eyewash are clearly marked.

Personal protective equipment:

Only CE-marked personal protection equipment should be used.

Respiratory protection: In case of dust formation, wear dust mask with filter type P2. EN 143.

Hand protection: Wear protective gloves. EN 374.
Option: Nitril / PVC gloves. ≥480 min.
Thickness ≥0.3 mm.

Eye protection: Use tight-fitting chemical goggles. EN 166.

Body protection: Wear protective clothing as necessary.

Measures to avoid environmental exposure:
No special precautions are necessary.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties.

Physical state:	Solid
Colour:	White
Odour:	Odourless
Melting point/freezing point:	135 - 153°C
Boiling point:	Not relevant/no data
Flammability:	Not relevant/no data
Lower and upper explosion limit:	Not relevant/no data
Flash point:	Not relevant/no data
Auto-ignition temperature:	345°C
Decomposition temperature:	>170°C
pH:	1.7 – 1.85
Kinematic viscosity:	Not relevant/no data
Solubility:	Soluble in water / 590 - 1840 g/L
Partition coefficient n-octanol/water:	Not relevant/no data
Vapour pressure:	Not relevant/no data
Density and/or relative density:	1.66 - 1.84 g/cm³
Relative vapour density:	Not relevant/no data
Particle characteristics:	Not relevant/no data

9.2 Other information:
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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: None under normal conditions.

10.2 Chemical stability: The product is stable under the conditions, noted in the section on "Handling and storage".

10.3 Possibility of hazardous reactions:
Reactions with alkalis (lyes).
Dust explosion hazard.

10.4 Conditions to avoid: Extremely high temperatures, humidity.

10.5 Incompatible materials: Strong acids, strong bases, strong oxidising agents and nitrites.

10.6 Hazardous decomposition products:

In case of fire hazardous decomposition products may be produced such as irritating gases and vapors.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008/GB CLP.

Acute toxicity: Not classified.

Citric acid, monohydrate:

Oral:	LD50:	Mouse:	5400 mg/kg
Dermal_	LD50:	Rat:	>2000 mg/kg

Skin corrosion/irritation: Not classified.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Not classified.

Specific target organ toxicity - single exposure: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: Not classified.

Aspiration hazard: Not classified.

11.2 Information on other hazards:

Endocrine disrupting properties:

The product/substance has no endocrine disrupting properties.

Other information: Contact may cause redness and irritation. Especially in case of repeated or prolonged exposure.
Splashes/exposure of solution in the eyes may cause irritation and smarting.
Inhalation of dust: May cause respiratory tract irritation.
Ingestion: May cause burning sensation in the mouth or throat, and stomach pain.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not classified as hazardous for environment.

Citric acid, monohydrate:

Fish:	LC50:	96 h.:	440 mg/L
Algae:	NOEC:	8 d.:	425 mg/L
Daphnia:	EC50:	24 h.:	1535 mg/L

12.2 Persistence and degradability:
Citric acid, monohydrate:
Biodegradable: 97%
Exposure time: 28 days
Method: OECD 301 B
Note: Readily biodegradable

12.3 Bioaccumulative potential:
Citric acid, monohydrate: none known potential.

12.4 Mobility in soil: Expected to be mobile in the aquatic environment.

12.5 Result of PBT and vPvB assesment:
The product does not meet the criteria for PBT or vPvB.

12.6 Endocrine disrupting properties:
The product/substance has no endocrine disrupting properties.

12.7 Other adverse effects: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
Avoid discharge to drain or surface water. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site. The coding of a waste stream is based on the application of the product by the consumer – end-user.

Contaminated packing: Properly cleaned container is disposed of according to packaging material, otherwise for incineration.

SECTION 14. TRANSPORT INFORMATION

This product is not classified as dangerous to transport.

	ADR/RID	**IMDG/IMO**
14.1 UN number or ID number	Not relevant	Not relevant
14.2 UN proper shipping name	Not relevant	Not relevant

14.3 Transport hazard class(es)	Not relevant	Not relevant
14.4 Packing group	Not relevant	Not relevant
14.5 Environmental hazards – MP EmS:	No Not relevant	No Not relevant
Other informations	LQ: Not relevant Tunnel: Not relevant	LQ: Not relevant Tunnel: Not relevant

14.6 Special precautions for user:
Not relevant.

14.7 Maritime transport in bulk according to IMO instruments:
Not relevant.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
Sources:
Current ADR regulations 2025. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013. Regulation (EU) 2016/425 of 9 March 2016 on personal protective equipment. Hazardous Waste (England and Wales) Regulations 2005 (as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EC regulation No 2020/878. CLP regulation No 1272/2008. REACH regulation 1907/2006. GB CLP.

Additional information: -

15.2 Chemical safety assessment:
Chemical safety assessments have not been performed for this product.

SECTION 16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3:
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Additional information:
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. Transport information provided by the manufacturer.

Descriptions of possible used abbreviations:
BCF Bioconcentration factor.
BOD Biochemical Oxygen Demand.
CAS Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).

COD Chemical oxygen demand.
DNEL Derived No-Effect Level.
EC50 Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.
IMDG International Maritime Dangerous Goods Code.
LC50 Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.
LD50 Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval.
log KOW n-Octanol/water.
MARPOL International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
PBT Persistent, Bioaccumulative and Toxic.
PNEC Predicted No-Effect Concentration.
UN RTDG UN Recommendations on the Transport of Dangerous Good.
vPvB Very Persistent and very Bioaccumulative.

Changes 01-09-2026 section:
1 – 16.

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