

Safety Data Sheet

According to Regulation EU 453/2010, EU 2015/830
Revision date: 11.07.2017

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

1.1 Produkt identifier

MEM Clean-up

1.2 Relevant identified uses of the substances or mixture

Cleaning concentrate for membranes in water treatment systems with reverse osmosis.

1.3 Details of the supplier

easymetal GmbH
Resselstrasse 12
A-2120 Wolkersdorf
AUSTRIA
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1.4 Emergency telephone number

Italy	+39 (0) 2 95250555
Great Britain	+44 (0) 191 4898181
France	+33 88 736000
Spain	+34 (9) 48822700
Belgium	+32 (0) 3 5410016
Austria	+43 (1) 4064343

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP): Eye irrit. 2; H319 Causes serious eye irritation.
Classification according to directive 67/548/EEC: Xi; R36 Irritating to eyes.

2.2 Label elements

Labelling according to EC regulation 1272/2008 (CLP):
Labelling: GHS07
Signal word: Warning



Precautionary statements:

P102 Keep out of reach of children.
P262 Avoid contact with eyes, skin and clothing.
P305, P351, P338
If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

Hazardous elements for labelling:

CAS-No.: 5949-29-1 Citric acid monohydrate

2.3 Other hazards

No risk worthy of mention.
PBT: not applicable
vPvB: not applicable

3. Composition/information in ingredients

3.1 **Substances:** not applicable

3.2 **Mixture:** Mixture of the substances listed below, non-hazardous additions.

Hazardous ingredients:

Chemical characterisation	CAS-No. EC-No.	Declaration (67/548/EWG)	Regulation (EC) No. 1272/2008	Concentration [%]
Citric acid monohydrate	5949-29-1 201-069-1	Xi; R36	Eye Irrit. 2; H319	>50 - <60
Water	7732-18-2 231-791-2	No	No	>40 - <50

REACH-registered No.: 01-2119457026-42-XXXX

4. FIRST AID MEASURES

4.1 Description of first aid measures

After eye contact:

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Have eye wash bottle or eye rinse ready at work place. Subsequently consult an ophthalmologist.

Following skin contact:

Remove residues with soap and water. Change contaminated clothing.
In case of skin reactions, consult a physician.

In case of inhalation:

Provide fresh air.

After swallowing:

Rinse mouth and drink 2-4 cupfuls of water. Seek medical treatment in case of troubles.

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

Water fog, alcohol resistant foam, carbon dioxide, extinguishing powder.

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus.
Hazchem-Code: -
Do not allow fire water to penetrate into surface or ground water.

5.4 Other information

No data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid contact with the substance. Avoid generation of dust. Do not breathe dust. Wear protective equipment.

6.2 Environmental precautions: Do not allow to enter into ground-water, surface water or drains.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Final cleaning. Larger quantities to be stemmed and pumped into tanks.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

When using do not eat, drink or smoke.
Provide adequate ventilation and local exhaust as needed. Avoid generation of dust. Do not breathe dust. Avoid contact with skin and eyes. Wear protective equipment. Keep away from sources of ignition. - No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Not metal container. Store container tightly closed in a dry area. Protect against heat/sun rays.
Do not store together with oxidizing agents, alkalis, reducing agents or metals.
Storage temperature : +15 - +25°C
Storage class : 12

7.3 Specific end use(s)

No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Not necessary.

Suitable technical control devices

Not necessary.

Personal protection equipment

Eye protection:

Tightly sealed goggles according regulations. Have eye wash bottle or eye rinse ready at wok place.

Hand protection:

Protective gloves according regulations.

Glove material: nitrile rubber

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Body protection:

Not necessary.

Respiartory protection:

Not necessary.

Occupational exposure controls/environmental

Do not allow to enter into ground-water, surface water or drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid, clourless

Odour: odourless

pH value: nicht bestimmt

Solubility: completely soluble in water

Boiling point: no data available

Explosion limits: no data available

Flammability: no data available

Explosive properties: no data available

Freezinh point: no data available

Vapour pressure: no data available

9.2 Other informations

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Explosive dust-air mixtures may form.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

Reacts violently with oxidizing agents, reducing agents, metals and bases.

10.4 Conditions to avoid

Protect from excessive heat. Avoid formation of dust/air mixtures because of explosion hazard.

10.5 **Incompatible materials**
Strong oxidizing agents, reducing agents, metals, bases

10.6 **Hazardous decomposition products**
In case of fire may be liberated: Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 **Information on toxicological effects**
There are no toxicological findings.

Acute toxicity

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Eye damage/irritation:
Eye Irrit. 2 = Causes serious eye irritation.

Sensitisation to the respiratory tract:
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.

Aspiration hazard
Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

For the mixture are no data available.
Do not allow to enter into ground-water, surface water or drains.

12.1 **Toxicity:** No data available.

12.2 **Persistence and degradability:** No data available.

12.3 **Bioaccumulative potential:** No data available.

12.4 **Mobility in soil:** No data available.

12.5 **Results of PBT- and vPvB assessment:**
No data available.

12.6 **Other adverse effects:** No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Incinerate according to applicable local, state and federal regulations.

Non-contaminated packaging

Non-contaminated packages may be recycled.

Contaminated packaging

Dispose of waste according to applicable legislation.

14. TRANSPORT INFORMATION

No dangerous good.

14.1 UN Number

ADR, ADN, IMDG, IATA not applicable

14.2 UN proper shipping name

ADR, RID, ICAO-TI, IMDG, IATA-DGR not applicable

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA not applicable

14.4 Packing group

ADR, IMDG, IATA not applicable

14.5 Environmental hazards

not data available

14.6 Special precautions for user

no dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not data available

14.8 Other informations

not data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation specific for the substance or mixture**EU-Vorschriften**

Regulation (EC) No. 1005/2009: not necessary

Regulation (EC) No. 850/2004: not necessary

Regulation (EC) No. 649/2012: not necessary

Regulation (EC) No. 648/2004: Based on available data, the classification criteria are met.

National regulations

Water hazard class 1 - slightly water-endangering in solid form (classification according VwVWS, substance No. 57)

15.2 **Chemical Safety Assessment**

not data available

16. OTHER INFORMATION

16.1 **Literature**

REACH regulation (EC) No. 1907/2006, (EU) 2015/830

CLP regulation (EC) No. 1272/2008

16.2 **Classification of the substance or mixture according to regulation (EC) No. 1272/2008**

Physical hazards: Evaluation of test data

Health and environmental hazards: Calculation procedures

16.3 **Words of H- and EUH**

H319 - Causes serious eye irritation

Eye Irrit. 2 - Eye irritation category 2

16.4 The information in this data sheet has been established to our best knowledge and was up-to-date time of revision.

It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

ABBREVIATIONS AND ACRONYMS

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA-DGR: International Air Transport Association-Dangerous Goods Regulations

ICAO-TI: International Civil Aviation Organization-Technical Instructions

IMDG: International Maritime Code for Dangerous Goods

MARPOL: Maritime Pollution Convention

PBT: Persistent, Bioaccumulative and Toxic

PNEC: Predicted No-Effect Concentration (REACH)

vPvB: very Persistent and very Bioaccumulative