## 1 Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**
Trade Name: Magnésio WS
Article n°: 3030XXX
MS: 80115310193

**1.2 Relevant identified uses of the substance or mixture and uses advised against**
General use: Reagent for in-vitro diagnostics in human samples
For professional use only.

**1.3 Details of the supplier of the safety data sheet**
Kovalent do Brasil Ltda.
Rua Cristóvão Sardinha, 110 – Jd. Bom Retiro – São Gonçalo – RJ – Brasil.
Tel: +(55 21) 2623-1367
e-mail: kovalent@kovalent.com.br

**1.4 Emergency telephone number**
Tel: +(55 21) 2623-1367 – Costumer service 8AM to 5PM.
0800 015 1414

**In case of emergency**
24 hours service
0800-722-6001 – RENACIAT (Rede Nacional de Centros de Informação e Assistência Toxicológica)

## 2 Hazards Identification

**2.1 Classification of the substance or mixture**
Classification according to ABNT NBR 14725.
Skin Irrit. 2; H315 Causes skin irritation.
Eye Dam. 1; H318 Causes serious eye damage.

**2.2 Label elements**

**Labelling (GHS)**

Pictogram:

Signal word: **Danger**

| | | |
|---|---|---|
| Hazard statements: | H315 | Causes skin irritation. |
| | H318 | Causes serious eye damage. |
| Precautionary statements: | P264 | Wash hands and face thoroughly after handling. |
| | P280 | Wear protective gloves/protective clothing/eye 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 CENTER/doctor. |

**Special labelling**
Text for labelling: Contains Ethanolamine.

**2.3 Other hazards**
No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:
No data available

## 3 Composition/information on ingredients

**3.1 Substances**

Not applicable

### 3.2 Mixtures

Chemical characterization: Aqueous solution.

Hazardous ingredients:

| Identifiers | Designation Classification | Content |
|---|---|---|
| EC No.<br>205-483-3<br>CAS 141-43-5 | Ethanolamine<br>Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Corr. 1B; H314.<br>STOT SE 3; H335. Aquatic Chronic 3; H412.<br>Specific concentration limits (SCL):<br>STOT SE 3; H335: C ≥ 5 % | 1 - 5 % |

Full text of H- and EUH-statements: see section 16.

## 4 First aid measures

### 4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!
If medical advice is needed, have product container or label at hand.
Take off contaminated clothing and wash it before reuse.

In case of inhalation: Provide fresh air. Seek medical treatment in case of troubles.

Following skin contact: After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

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

Causes skin irritation. Causes serious eye damage.

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

Treat symptomatically.

## 5 Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

### 5.2 Special hazards arising from the substance or mixture

Fires in the immediate vicinity may cause the development of dangerous vapours.
In case of fire may be liberated: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters: Wear self-contained breathing apparatus.

Additional information: Do not allow water used to extinguish fire to enter drains, ground or waterways.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear appropriate protective equipment. Ensure adequate ventilation, especially in confined areas. Do not breathe vapours. Keep unprotected people away. Take off contaminated clothing and wash it before reuse.

**6.2 Environmental precautions**
Do not allow to penetrate into soil, waterbodies or drains.

**6.3 Methods and material for containment and cleaning up**
Soak up with absorbent materials such as sand, siliceous earth, acid- or universal binder.
Store in special closed containers and dispose of according to ordinance. Final cleaning.

**6.4 Reference to other sections**
Refer additionally to section 8 and 13.

## 7 Handling and storage

**7.1 Precautions for safe handling**

| | |
|---|---|
| Advices on safe handling: | Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapors. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at workplace. |

**7.2 Conditions for safe storage, including any incompatibilities**

| | |
|---|---|
| Requirements for storerooms and containers: | Keep containers tightly closed and at a temperature between 2°C and 8°C.<br>Keep sterile. Do not freeze.<br>Unsuitable materials: Copper |
| Hints on joint storage: | Do not store together with strong acids.<br>Keep away from food, drink and animal feeding stuffs. |
| Storage class: | 12 = Non-combustible liquids |

**7.3 Specific end use(s)**
No information available.

## 8 Exposure controls/personal protection

**8.1 Control parameters**
Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|---|---|---|---|
| 141-43-5 | Ethanolamine | Europe: IOELV: STEL | 7,6 mg/m³; 3 ppm (may be absorbed through the skin) |
| | | Europe: IOELV: TWA | 2,5 mg/m³; 1 ppm (may be absorbed through the skin) |
| | | Germany: TRGS 900 Kurzzeit | 0,5 mg/m³; 0,2 ppm<br>(Aerosol and vapor, may be absorbed through the skin) |
| | | Germany: TRGS 900 Langzeit | 0,5 mg/m³; 0,2 ppm<br>(Aerosol and vapor, may be absorbed through the skin) |

**8.2 Exposure controls**
Provide good ventilation and/or an exhaust system in the work area.

**Personal protection equipment**
**Occupational exposure controls**

| | |
|---|---|
| Respiratory protection: | Respiratory protection must be worn whenever the WEL levels have been exceeded.<br>Use filter type A (= against vapors of organic substances) according to EN 14387. |
| Hand protection: | Protective gloves according to EN 374.<br>Glove material: Natural latex – Layer thickness: 0.6 mm<br>Breakthrough time: >480 min.<br>Observe glove manufacturer's instructions concerning penetrability and breakthrough time. |
| Eye protection: | Tightly sealed goggles according to EN 166. |
| Body protection: | Wear suitable protective clothing. |

General protection and hygiene measures:

Do not breathe vapors. Avoid contact with skin and eyes. Wash hands before breaks and after work. When using, do not eat, drink or smoke. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at workplace.

**Environmental exposure controls**
Refer to "6.2 Environmental precautions"

## 9 Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Physical state at 20 °C and 101.3 kPa | Liquid |
| Colour: | Blue, clear |
| Odour: | Odourless |
| Odour threshold: | No data available |
| Melting point/freezing point: | Approx. 0°C |
| Initial boiling point and boiling range: | Approx. 100°C |
| Flammability: | No data available |
| Upper/lower flammability or explosive limits: | No data available |
| Flash point/flash point range: | Not combustible |
| Decomposition temperature: | No data available |
| pH: | at 25 °C: 11 |
| Viscosity, kinematic: | No data available |
| Water solubility: | At 20°C: completely miscible |
| Partition coefficient: n-octanol/water: | No data available |
| Vapour pressure: | No data available |
| Density: | at 20 °C: 1.002 g/mL |
| Vapour density: | No data available |
| Particle characteristics: | Not applicable |

**9.2 Other information**

| | |
|---|---|
| Explosive properties: | No data available |
| Oxidizing characteristics: | No data available |
| Auto-ignition temperature: | No data available |
| Evaporation rate: | No data available |
| Additional information: | No data available |

## 10 Stability and reactivity

**10.1 Reactivity**
Refer to 10.3.

**10.2 Chemical stability**
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**
No hazardous reactions know.

**10.4 Conditions to avoid**
Protect against heat /sun rays.

**10.5 Incompatible materials**
Strong acids, copper

**10.6 Hazardous decomposition products**
No hazardous decomposition products when regulations for storage and handling are observed.

| | |
|---|---|
| Thermal decomposition: | No data available |

## 11 Toxicological information

| | |
|---|---|
| Toxicological effects: | The statements are derived from the properties of the single components. No toxicological data is available for the product as such. |
| Acute toxicity (oral): | Lack of data. |
| Acute toxicity (dermal): | Lack of data. |
| Acute toxicity (inhalative): | Lack of data. |
| Skin corrosion/irritation: | Skin irrit. 2; H315 = Causes skin irritation. |
| Serious eye damage/irritation: | Eye Dam. 1; H318 = Causes serious eye damage. |
| Sensitisation to the respiratory tract: | Lack of data. |
| Skin sensitisation: | Lack of data. |
| Germ cell mutagenicity/Genotoxicity: | Lack of data. |
| Carcinogenicity: | Lack of data. |
| Reproductive toxicity: | Lack of data. |
| Effects on or via lactation: | Lack of data. |
| Specific target organ toxicity: (single exposure) | Lack of data. |
| Specific target organ toxicity: (repeated exposure) | Lack of data. |
| Aspiration hazard: | Lack of data. |
| Endocrine disrupting properties: | No data available |
| Other information: | No data available |

## 12 Ecological information

**12.1 Toxicity**

| | |
|---|---|
| Aquatic toxicity: | In case of spills of large quantities: Harmful effects on water organisms by modification of pH-value. |
| Water Hazard Class: | 1 = slightly hazardous to water |

**12.2 Persistence and degradability**

| | |
|---|---|
| Further details: | The following applies to Ethanolamine in general:<br>Biodegradability: > 70 %/ 28 d (OECD 301 E). Product is readily biodegradable. |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| Partition coefficient: n-octanol/water: | No data available |

**12.4 Mobility in soil**
No data available

**12.5 Results of PBT and vPvB assessment**
No data available

**12.6 Endocrine disrupting properties**
No data available

**12.7 Other adverse effects**
General information: Do not allow to enter into ground-water, surface water or drains.

## 13 Disposal considerations

**13.1 Waste treatment methods**
Product: Dispose of waste according to applicable legislation.

Package: Dispose of waste according to applicable legislation.

Additional information: Do not reuse empty containers.

## 14 Transport information

**14.1 UN number or ID number**
ADR/RID, IMDG, IATA-DGR Not applicable

**14.2 UN proper shipping name**
ADR/RID, IMDG, IATA-DGR Not restricted

**14.3 Transport hazard class(es)**
ADR/RID, IMDG, IATA-DGR Not applicable

**14.4 Risk Number**
-

**14.5 Packing group**
ADR/RID, IMDG, IATA-DGR Not applicable

**14.5 Environmental hazards**
Dangerous for the environment: Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.
Marine pollutant: No
**14.6 Special precautions for user**
No dangerous good in sense of these transport regulations.

## 15 Regulatory information

• Product produced in accordance with the requirements established by RDC 665 of 30/03/2022 and with labeling information in accordance with RDC 206 of 17/11/2006.

• For more details on product disposal refer to RDC 222 of 28/03/2018 and NBR 10004.

• This safety data sheet was prepared in accordance with ABNT/NBR 14725:23.

## 16 Other information

Wording of the H-phrases under paragraph 2 and 3:
H302 = Harmful if swallowed.
H312 = Harmful in contact with skin.
H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
H318 = Causes serious eye damage.
H332 = Harmful if inhaled.
H335 = May cause respiratory irritation.
H412 = Harmful to aquatic life with long lasting effects.

The above information is considered correct but is not intended to be complete and should be used only as a guide. Kovalent is not responsible for any damage resulting from handling or use.

In article XXX: The three X are for the volume.

**Abbreviations and acronyms:**
ABNT: Associação Brasileira de Normas Técnicas
Acute Tox.: Acute toxicity
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
CAS: Chemical Abstracts Service
CE: Conformite Europeenne
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Dam.: Eye damage
GHS: Globally Harmonized System
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
MS: Ministério da Saúde
NBR: Norma Brasileira
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
RDC: Resolução da Diretoria Colegiada
REACH: Registration, Evaluation, Authorisation and Restriction
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Corr.: Skin corrosion
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit