

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

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

### 1.1 Product Identifier

- **Trade name:**

**Hidrozim fluid**

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

- **Use of the substance/mixture:**

Admixture for cold weather concreting

### 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

ADING AD, Novoselski pat (1409 Str.) No. 11  
1060 Skopje, Republic of Macedonia  
++389 2 2034-800  
+389 2 2034-821, 2034-822  
+389 2 2034-850, 2034-853

### 1.4 Emergency telephone number

- **Emergency telephone number:**

Toxicology Information Centre  
+389 2 3147-635

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

*In accordance with the Rulebook on Classification, Labelling and Packaging of Chemicals and Certain Products in line with UN's Globally Harmonised System of Classification and Labelling of Chemicals (Official Gazette of the Republic of Macedonia no. 145/10, 53/11 and 164/13)*

#### 2.1.1 Classification:

According to Regulation 1272/2008 (CLP)



GHS07

H302 – Harmful if swallowed. (Hazard category 4)



GHS05

H318 – Causes serious eye damage. (Hazard category 1)

### 2.2 Label elements

- **Hazard pictogram:**

According to Regulation 1272/2008 (CLP)



GHS07



GHS05

- **Signal word:**

Danger

- **H- Hazard statements:**

H302 – Harmful if swallowed.  
H318 – Causes serious eye damage.

## Safety Data Sheet according to 1272/2008/EC

SDS No.006/1

Printing date:  
11.05.2015

Revision: 16.04.2015

Trade name: **Hidrozim fluid**

- P- Precautionary statements:**

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P264 – Wash hands and face thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

- Classification:**

According to Directive 67/548/EEC

- R- Risk statements:**

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

- S- Safety statements:**

S13 - Keep away from food, drink and animal feeding stuffs

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 - Wear eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.

### 2.3 Other hazards

**PBT and vPvB results:**

PBT: Not applicable.

vPvB: Not applicable.

## 3. Composition/information on ingredients







### 3.1 Substances

Not applicable.

### 3.2 Mixtures

- Chemical characterization: Nitrates-based aqueous solution**

- Dangerous components:**

<p>CAS: 15245-12-2 EINECS: 239-289-5</p>	<p>Nitric acid, ammonium calcium salt</p>  <p>H302 – Harmful if swallowed. (Hazard category 4)</p>  <p>Causes serious eye damage/irritation, Hazard category 1, H318</p> <p> Xn, R22, R41</p>	<p>80-85%</p>
<p>CAS: 10124-37-5 EINECS: 233-332-1</p>	<p>Calcium nitrate</p>  <p>H302 – Harmful if swallowed. (Hazard category 4)</p>  <p>Causes serious eye damage/irritation, Hazard category 1, H318</p> <p> Xn, R22, R41</p>	<p>12-13%</p>

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

## 4. First aid measures

### 4.1 Description of first aid measures

- **General information:** Immediately remove contaminated clothing and if symptoms of poisoning appear, seek medical advice.
- **After inhalation:** Remove the person to fresh air. If unconscious, place in recovery position and get medical attention.
- **After skin contact:** Immediately wash with plenty of water and soap for a prolonged period.
- **After eye contact:** Flush the eyes with plenty of water for several minutes with the eyelids held open. If symptoms persist, seek medical attention.
- **After swallowing:** Rinse mouth with plenty of water. Do not induce vomiting. Seek medical advice.

### 4.2 Information for doctor

- **Most important symptoms and effects, both acute and delayed** Acute effects: Eye irritation (redness). If swallowed: stomach pain, confusion, dizziness, headache, nausea, loss of consciousness.

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

- **Indication of any immediate medical attention and special treatment needed** No relevant additional information available.

## 5. Firefighting measures

### 5.1 Extinguishing media

- **Suitable extinguishing media:** Carbon dioxide, powder or water spray, with water jet to extinguish larger flames and use suitable extinguishing media in accordance with the prescribed rules.

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

- **Special hazards arising from the substance or mixture:** If the event of fire, it may release dangerous decomposition products, such as nitrogen (NO, NO<sub>2</sub>).

### 5.3 Advice for firefighters

- **Protective equipment:** Suitable protective equipment.

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment

and emergency procedures

- **Personal precautions:** Wear suitable protective clothing and keep unprotected persons away. Avoid contact with skin and eyes.

### 6.2 Environmental precautions

- **Environmental precautions:** Prevent the material from entering soil, sewers and surface water. In case of spillage of the material into the sewerage network, inform the competent authorities.

### 6.3 Methods and material for containment and cleaning up

- **Methods for cleaning up:** Dispose of the contaminated material in accordance with the relevant disposal regulations. Collect the spill with suitable absorbent material (diatomaceous earth, sand, acid binders, etc.). Ensure appropriate ventilation in the room.

## 7. Handling and storage

### 7.1 Precautions for safe handling

- **Precautions for safe handling:** Ensure appropriate well-ventilated room for the material. Avoid contact with skin and eyes.
- **Precautions against fire and explosion:** No special precautions required.

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

- **Conditions for storerooms and vessels:** Store in appropriate containers in dry well-ventilated area.

### 7.3 Specific end use(s)

- **Specific storage conditions** No relevant additional information available.

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

## 8. Exposure controls/personal protection

### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**  
Not required.  
DNEL  
Dermal-8.33 mg/kg bw/day  
Inhalation-6.3 mg/m<sup>3</sup>  
PNEC  
Freshwater – 0.45 mg/l  
Marine – 0.045 mg/l  
Marine sediment – 4.5 mg/kg/wwt  
Soil – 18 mg/kg/wwt
- **Additional information:**  
No additional information.

### 8.2 Exposure controls and personal protection

- **Exposure controls**  
Ensure ventilation in the room where the work is carried out.  
Avoid creating dust.
- **Personal protective equipment**
- **Respiratory protection:**  
Not necessary.
- **Hand protection:**  
Protective gloves.
- **Eye protection:**  
Safety glasses.
- **Skin protection:**  
Wear suitable protective clothing.

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- **Appearance:**
  - Form:** Liquid
  - Colour:** Brown
- **Odour:** Specific
- **Odour threshold:** Unspecified
- **pH value at t=20°C:** 6.0 – 8.0
- **Melting point:** No information available.
- **Boiling point:** No information available.
- **Flash point:** No information available.
- **Evaporation rate:** No information available.
- **Flammability (solid, gas):** No information available.
- **Upper/lower flammability or explosive limits:** No information available.
- **Vapour pressure:** No information available.
- **Vapour density:** No information available.
- **Relative density:** 1.19 – 1.25 g/cm<sup>3</sup>
- **Solubility:** Soluble
- **Partition coefficient: n-octanol/water at 25°C:** No information available.
- **Auto-ignition temperature:** No information available.
- **Decomposition temperature:** No information available.
- **Viscosity:** No information available.
- **Explosive properties:** No information available.
- **Oxidising properties:** No information available.

## 10. Stability and reactivity

### 10.1 Reactivity

- No information available.

### 10.2 Chemical stability:

- Stable under normal temperature and pressure.

### 10.3 Possibility of hazardous reactions:

- When heated, it decomposes into nitrogen oxides, calcium oxides.

### 10.4 Conditions to avoid:

- Do not store in warm places. Avoid contact with incompatible materials.

### 10.5 Incompatible materials:

- Organic flammable substances, strong acids and bases.

### 10.6 Hazardous decomposition products:

- Irritating gases and vapours.

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

## 11. Toxicological information

### 11.1 Information on toxicological effects

- **Acute toxicity:** /

- **LD/LC50 values relevant for classification:**

Oral	/	
Dermal	/	

- **Primary irritant effect:**
- **on the skin** No known significant effects or critical hazards.
- **on the eye** No known significant effects or critical hazards.
- **Sensitization:** No known significant effects or critical hazards.

## 12. Ecological information

### 12.1 Toxicity:

#### 12.1.1 Aquatic toxicity:

- Not toxic.

#### 12.2 Persistence and degradability:

- The product contains biodegradable components.

#### 12.3 Bioaccumulative potential:

- No relevant information available.

#### 12.4 Mobility in soil:

- The product is soluble in water and may move, that is, spread away from the area of release.

#### 12.5 Results of PBT and vPvB assessment:

- No information available.

#### 12.6 Other adverse effects:

- No information available.

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product waste should be treated in accordance with the Law on Waste Management (Official Gazette of the Republic of Macedonia no. 100/2005, 2/2011, 123/2012, 147/2013), whereas used packaging should be treated in accordance with the Law on Management of Packaging and Packaging Waste (Official Gazette of the Republic of Macedonia no. 161/2001, 136/2011, 39/2012)

- **Recommendation:** Dispose of waste in accordance with local regulations.
- **Uncleaned packaging**
- **Recommendation:** Used packaging may be reused for the same product. Used packaging may not be reused for storage of drinking water and food. Waste packaging can be passed on for recycling.

Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid****14. Transport information****14.1 UN number**

- ADR, ADN, IMDG, IATA – Not subject to transportation regulations applicable to hazardous products.

**14.2 UN proper shipping name**

- Not subject to transportation regulations applicable to hazardous products.

**14.3 Transport hazard class**

- Not subject to transportation regulations applicable to hazardous products.

**14.4 Packing group**

- Not subject to transportation regulations applicable to hazardous products.

**14.5 Environmental hazards**

- Not subject to transportation regulations applicable to hazardous products.

**14.6 Special precautions for user**

- Not subject to transportation regulations applicable to hazardous products.

**14.7 Transport in bulk**

- Not subject to transportation regulations applicable to hazardous products.

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Law on Health and Safety at Work (Official Gazette of the Republic of Macedonia no. 92/2007, 137/2013, 164/2013, 158/2014); Law on Chemicals (Official Gazette of the Republic of Macedonia no. 145/2010, 53/2011, 164/2013); Law on Environment (Official Gazette of the Republic of Macedonia no. 53/2005, 24/2007, 93/2013). Rulebook amending the Rulebook on the Form and Contents of the Application Form for Obtaining Permit for Import, Export and Transport of Toxic Chemicals and Their Precursors for Purposes Not Prohibited (Official Gazette of the Republic of Macedonia no. 291/2014); Rulebook on Specific Requirements for the Legal Persons Trading in Dangerous Chemicals (Official Gazette of the Republic of Macedonia no. 132/2008); Rulebook on Labelling and Packaging of Dangerous Chemicals (Official Gazette of the Republic of Macedonia no. 85/2009); Rulebook on Hazardous Substances, Threshold Limit Values of Hazardous Substances and Criteria or Properties for Classifying Substances as Hazardous (Official Gazette of the Republic of Macedonia no. 25/2010); List of Prohibitions and Restrictions in the Use of Chemicals (Official Gazette of the Republic of Macedonia no. 57/2011); Rulebook on Chemical Safety Assessment and Contents of the Chemical Safety Report (Official Gazette of the Republic of Macedonia no. 82/2011); List of Polluting Materials and Substances (Official Gazette of the Republic of Macedonia no. 122/2011); Law on Chemicals (Official Gazette of the Republic of Macedonia no. 31/2014); Rulebook amending the Rulebook on the Form and Contents of the Application Form for Obtaining Permit for Import, Export and Transit of Toxic Chemicals and Their Precursors for Purposes Not Prohibited (Official Gazette of the Republic of Macedonia no. 192/2014).

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture.



Printing date:  
11.05.2015

Revision: 16.04.2015

**Trade name: Hidrozim fluid**

## 16. Other information

Reason for issue: New format

This Safety Data Sheet summarises to the best of our knowledge the health and safety hazard information on the product. Each user should read this Safety Data Sheet and consider the information in the context of how the product should be handled and used, as well as how it should be stored, transported and disposed of. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. This information relates only to the specific product and may not be valid if the product is used in combination with any other material. All the information contained in this Safety Data Sheet is true and up-to-date.

### Relevant labels

#### H-statements

H302 – Harmful if swallowed.

H318 – Causes serious eye damage.

#### P-statements

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

P264 – Wash hands and face thoroughly after handling.

P270 – Do not eat, drink or smoke when using this product.

P305 + P351 + P338 + P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P301 + P312 – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### R-statements

R22 - Harmful if swallowed.

R41 - Risk of serious damage to eyes.

#### S-statements

S13 - Keep away from food, drink and animal feeding stuffs.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 - Wear eye/face protection.

S46 - If swallowed, seek medical advice immediately and show this container or label.