

Printing date:
13.05.2015

Revision: 16.04.2015

Trade name: Ingunit T EKO

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

1.1 Product Identifier

- **Trade name:** Ingunit T EKO

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

- **Use of the substance/mixture:** Set accelerating admixture for concrete and mortar

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)



GHS08

H373 - May cause damage to organs through prolonged or repeated exposure (Hazard category 2)



GHS05

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

H290 – May be corrosive to metals. (Hazard category 1)

H302 – Harmful if swallowed. (Hazard category 4)

H315 – Causes skin irritation. (Hazard category 2)

H412 – Harmful to aquatic life with long lasting effects. (Hazard category 3)

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2.2 Label elements

According to Regulation 1272/2008 (CLP)

- Hazard pictogram:**



GHS08



GHS05

- Signal word:**

Danger

- H- Hazard statements:**

H318 – Causes serious eye damage.
H290 – May be corrosive to metals.
H302 – Harmful if swallowed.
H315 – Causes skin irritation.
H412 – Harmful to aquatic life with long lasting effects.
H373 – May cause damage to organs through prolonged or repeated exposure.

- P- Precautionary statements:**

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 – Wash hands and face thoroughly after handling.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338- IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P332 + P313 – If skin irritation occurs: Get medical advice/attention.
P310- Immediately call a POISON CENTER or doctor/physician.
P406- Store in a corrosive resistant container with a resistant inner liner.
P273 – Avoid release to the environment.
P301 +P330 + P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P350 – IF ON SKIN: Gently wash with plenty of soap and water.
P501 – Dispose of contents/container as hazardous waste.

- Classification:**

According to Directive 67/548/EEC

- R- Risk statements:**

R22- Harmful if swallowed.
R38 - Irritating to skin.
R41- Risk of serious damage to eyes.
R48/22 – Harmful: danger of serious damage to health by prolonged exposure if swallowed.

- S- Safety statements:**

S22 – Do not breathe dust.
S23- Do not breathe gas/fumes/vapour/spray.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28- After contact with skin, wash immediately with plenty of water and soap.
S37/39 – Wear suitable gloves and eye/face protection.

2.3 Other hazards

PBT and vPvB results:

PBT: Not applicable.
vPvB: Not applicable.

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3. Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

- **Chemical characterization: Aqueous solution of sulphate salts**
- **Dangerous components:**

<p>CAS: 10043-01-3 EINECS: 233-135-0</p>	<p>Aluminium sulfate</p>  <p>Causes serious eye damage. Hazard category 1, H318 May be corrosive to metals. Hazard category 1, H290</p>  <p><i>Xi, R41</i></p>	<p>< 55%</p>
<p>CAS: 111-42-2 EINECS: 203-868-0</p>	<p>Diethanolamine</p>  <p>Harmful if swallowed. Hazard category 4, H302 Causes skin irritation. Hazard category 2, H315 Harmful to aquatic life with long lasting effects. Hazard category 3, H412 Causes serious eye damage, Hazard category 1, H318</p>  <p>May cause damage to organs through prolonged or repeated exposure. Hazard category 2, H373.</p>  <p><i>Xn, Xi R22, R41, R48/22, R38</i></p>	<p>< 15%</p>

4. First aid measures

4.1 Description of first aid measures

- **General information:** The general hygiene measures for handling chemicals are to be adhered to when handling this material.
- **After inhalation:** Remove the person to fresh air.
- **After skin contact:** Immediately wash with plenty of water and soap for an extended period of time.
- **After eye contact:** Rinse out with plenty of water with the eyelid held wide open for several minutes. If symptoms persist, call a physician.
- **After swallowing:** Do not induce vomiting. If conscious, give casualty a small quantity of water to drink. Seek medical advice immediately.

4.2 Information for doctor

- **Most important symptoms and effects, both acute and delayed** No relevant additional information available.

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.

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5. Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media:**

Suitable extinguishing media for surrounding fire should be used.

5.2 Special hazards arising from the substance or mixture

- **Special hazards arising from the substance or mixture:**

Toxic and corrosive fumes (SO₃) and nitrogen oxides may be released at high temperatures.

5.3 Advice for firefighters

- **Protective equipment:**

Suitable protective equipment.

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:**

Do not allow the material to enter the soil/sewerage or surface water. In case of spillage in sewerage, inform the competent authorities.

6.3 Methods and material for containment and cleaning up

- **Methods for cleaning up:**

In case of spillage, collect the spill with suitable tool or absorbent material and dispose of it in specially marked containers according to local regulations.

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7. Handling and storage

7.1 Precautions for safe handling

- **Precautions for safe handling:** Use protective clothing. Ensure appropriate ventilation in the room where the material is handled. Avoid contact with the material.
- **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 tightly closed, acid-resistant containers. Protect the product against freezing. Storage area should be well ventilated.

7.3 Specific end use(s)

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

8. Exposure controls/personal protection

8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:** No information available.
- **Additional information:** No additional information.

8.2 Exposure controls and personal protection

- **Exposure controls** Ensure ventilation in the area of use.
- **Personal protective equipment**
- **Respiratory protection:** Appropriate respiratory (filter) mask.
- **Hand protection:** Protective gloves.
- **Eye protection:** Safety glasses.
- **Skin protection:** Wear suitable protective clothing.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance:**
 - Form:** Liquid
 - Colour:** White
- **Odour** Specific
- **Odour threshold:** Unspecified
- **pH value at t=20°C** 2.0 – 4.0
- **Melting/freezing 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** 1.40 – 1.46 g/cm³
- **Solubility** No information available.
- **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 and calcium oxides.

10.4 Conditions to avoid:

- Store away from incompatible materials.

10.5 Incompatible materials:

- Strong bases, metals.

10.6 Hazardous decomposition products:

- Decomposition into unstable products may only occur at very high temperature. Toxic and corrosive fumes (sulphur oxides) are being released at temperature above 650 °C.

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11. Toxicological information

11.1 Information on toxicological effects

- **Acute toxicity:** /

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

Oral	/	
Dermal	/	
Inhalation	/	

- **Primary irritant effect:**
- **on the skin** May cause irritation after repeated and prolonged skin contact.
- **on the eye** May cause eye irritation after repeated and prolonged exposure.
- **Sensitization:** May cause skin and eye sensitization.

12. Ecological information

12.1 Toxicity:

12.1.1 Aquatic toxicity:

- The product may be toxic to aquatic organisms.

12.2 Persistence and degradability:

- The product contains biodegradable components.

12.3 Bioaccumulative potential:

- No relevant information available.

12.4 Mobility in soil:

- Partially soluble in water.

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:** Decontaminate waste prior to disposal with sodium-based solution.
- **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.

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Trade name: Ingunit T EKO**14. Transport information****14.1 UN number**

- ADR, ADN, IMDG, IATA – No information available.

14.2 UN proper shipping name

- No information available.

14.3 Transport hazard class

- No information available.

14.4 Packing group

- No information available.

14.5 Environmental hazards

- No information available.

14.6 Special precautions for user

- No information available.

14.7 Transport in bulk

- No information available.

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.

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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- Hazard statements:**

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- H302 – Harmful if swallowed.
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