

Printing date:
08.05.2014

Revision: 16.04.2015

Trade name: Ingunit T

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

1.1 Product Identifier

- **Trade name:** Ingunit T

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)



GHS05

H314 – Causes severe skin burns and eye damage. (Hazard category 1)

2.2 Label elements

- **Hazard pictogram:** According to Regulation 1272/2008 (CLP)



GHS05

- **Signal word:** Danger

- **H- Hazard statements:** H314 – Causes severe skin burns and eye damage.

Safety Data Sheet
according to 1272/2008/EC

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- **P- Precautionary statements:**

P102+P405 – Keep out of reach of children and store locked up.
P262 - Do not get in eyes, on skin, or on clothing.
P280 – Wear protective gloves/protective clothing/eye protection/face 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.
- **Classification:**

According to Directive 67/548/EEC
- **R- Risk statements:**

R35 - Causes severe burns.
- **S- Safety statements:**

S1 – Keep locked up.
S2 - Keep out of the reach of children.
S24/25 - Avoid contact with skin and eyes.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

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: Aqueous solution of sodium aluminate**

- **Dangerous components:**

CAS: 1302-42-7 EINECS: 215-100-1	<p>Sodium aluminate</p> <p>Causes severe skin burns and eye damage, Hazard category 1, H314 C, R35</p>	40-50%
CAS: 1310-73-2 EINECS: 215-185-5	<p>Sodium hydroxide</p> <p>Causes severe skin burns and eye damage, Hazard category 1, H314 C, R35</p>	1-10%

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4. First aid measures

4.1 Description of first aid measures

- **General information:** Corrosive. Causes burns of the respiratory tract. Symptoms may include irritation of the nose, throat and upper respiratory tract. Symptoms may also include burns of the mouth, throat and stomach.
Causes skin burns and eye damage. Symptoms include redness, blurred vision, eye burns and permanent damage of the eyes.
- **After inhalation:** Remove the person to fresh air and seek medical attention.
- **After skin contact:** Wash thoroughly with water and soap. Remove contaminated clothing. If irritation develops, seek medical attention.
- **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. 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.

5. Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media:** Suitable extinguishing media for surrounding fire should be used. The product is non-flammable.

5.2 Special hazards arising from the substance or mixture

- **Special hazards arising from the substance or mixture:** No information available.

5.3 Advice for firefighters

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

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- **Personal precautions:** Ensure suitable personal protection and appropriate ventilation in the room. Avoid contact with skin and eyes and avoid inhalation of vapours.

6.2 Environmental precautions

- **Environmental precautions:** Do not spill the material in the environment, sewage systems, nor in surface water, running water and ground water. Dam (confine) the spillage. Pump out the spill into a designated inert waste container. Dissolve with large quantity of water prior to disposal.

6.3 Methods and material for containment and cleaning up

- **Methods for cleaning up:** Collect (absorb) the spill with absorbent material. Dissolve with large quantity of water prior to disposal.

7. Handling and storage

7.1 Precautions for safe handling

- **Precautions for safe handling:** Use suitable protective equipment. Store in tightly-closed properly labelled containers.
- **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 original container protected from direct exposure to sunlight. Keep away from sources of heat, moisture and acids. Do not allow it to come in contact with metal. Storage area should be cool, dry and well ventilated.

7.3 Specific end use(s)

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

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8.Exposure controls/personal protection

8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:** The material does not contain relevant amounts of ingredients with limit values that require monitoring at the workplace.
- **Additional information:** No additional information.

8.2 Exposure controls and personal protection

- **Exposure controls** Ensure ventilation in the area of use. Avoid contact with the material.
- **Personal protective equipment**
- **Respiratory protection:** Appropriate respiratory mask with filter type P2.
- **Hand protection:** Protective rubber 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:** Bright pink
- **Odour:** Specific
- **Odour threshold:** Unspecified
- **pH value at t=20°C** 12.0 – 14.0
- **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** 1.46 – 1.52 g/cm³
- **Solubility** Soluble.
- **Partition coefficient: n-octanol/water** 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:

- No information available.

10.4 Conditions to avoid:

- Avoid exposure to air and moisture for extended period of time.

10.5 Incompatible materials:

- Flammable materials, organic matter, metals, metal oxides, bases, reducing agents, powder, acetone, peroxides.

10.6 Hazardous decomposition products:

- Irritating gases/vapours, like carbon oxides, may be released by thermal decomposition. Hydrogen gas is released in contact with aluminium.

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11. Toxicological information

11.1 Information on toxicological effects

- **Acute toxicity:** /

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

7664-38-2 Inorganic acid		
Oral	LD 50	>2,000 mg/kg
Dermal	/	/
Inhalation	LC 50 (4h)	> 1,000 mg/m ³ air

- **Primary irritant effect:**
- **on the skin** May cause severe skin burns.
- **on the eye** May cause severe damage to eyes.
- **Sensitization:** Risk of serious damage to eyes. Irritating to skin and eyes.

12. Ecological information

12.1 Toxicity:

12.1.1 Aquatic toxicity:

- The product is not toxic.

12.2 Persistence and degradability:

- The product is non-organic. Insoluble Al(OH)₃ and sodium ions are formed when it reacts with water.

12.3 Bioaccumulative potential:

- No relevant information available.

12.4 Mobility in soil:

- The product is unstable in the natural environment. Insoluble Al(OH)₃ and sodium ions are formed when it reacts with water.

12.5 Results of PBT and vPvB assessment:

- No information available.

12.6 Other adverse effects:

- No information available.

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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:** Waste should be dissolved in large quantities of water and disposed of in accordance with local regulations.
- **Uncleaned packaging**
- **Recommendation:** Do not reuse the container.

14. Transport information

14.1 UN number

- ADR, ADN, IMDG, IATA – 1819

14.2 UN proper shipping name

- ADR, ADN, IMDG, IATA – Sodium aluminate, solution.

14.3 Transport hazard class

- ADR, ADN, IMDG, IATA – 8 Corrosive.

14.4 Packing group

- ADR, ADN, IMDG, IATA – II.

14.5 Environmental hazards

- ADR, ADN, IMDG, IATA
Hazardous
- ADR (Symbol: Corrosive – GHS05)
- IATA (Symbol: Corrosive – GHS05)

14.6 Special precautions for user

- ADR, ADN, IMDG, IATA – Danger – Dangerous material

14.7 Transport in bulk

- ADR, ADN, IMDG, IATA – /

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Trade name: Ingunit T**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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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

- **Hazard pictograms:**



GHS05

- Signal word: Danger

H- Hazard statements:

H314 – Causes severe skin burns and eye damage.

P- Precautionary statements:

P102+P405 – Keep out of reach of children and store locked up.

P262 - Do not get in eyes, on skin, or on clothing.

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

R- Risk statements:

R35 - Causes severe burns.

S- Safety statements:

S1 – Keep locked up.

S2 - Keep out of the reach of children.

S24/25 - Avoid contact with skin and eyes.

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

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.