

IN-ECO® 882

According to the Regulation No. 1907/2006/EC (REACH) and No. 2015/830/EC

Version: 2022-09-07 / EN

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**Mixture name: **IN-ECO® 882**

Chemical name: Mixture of polyacrylamide.

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

Relevant identified uses: Flocculant for water treatment.

1.3. Details of the supplier of the safety data sheet

Company: JSC „Arionex LT“

Address: Ašigalio g. 6c, LT-49142, Kaunas

Telephone: +370 37 214669

E-mail: info@arionex.eu**1.4. Emergency telephone**

Poisoning control and information bureau

Address: Šiltnamių g. 29, LT -2043 Vilnius

Telephone number: 8 5 236 20 52

Fax: 8 5 236 21 42

E-mail: info@tox.lt

Work time: All day (24 hours).

SECTION 2: Hazards Identification**2.1. Classification of the substance or mixture****According to Regulation (EC) No 1272/2008 [CLP]**

The product is not classified as hazardous.

2.2. Label elements**According to Regulation (EC) No 1272/2008 [CLP].****Pictogram:**

None.

Signal Word:

None.

Dangerous components of the mixture:

None.

Hazard Statements:

None.

Precautionary Statements:

None.

2.3. Other hazards

No specific dangers known, if the regulations/notes for storage and handling are considered.

PBT and vPvB assessment: Does not fulfil the criteria according to Annex XIII of REACH.

SECTION 3: Composition/Information on Ingredients**3.1. Substances**

Not applicable.

3.2. Mixtures

Chemical name: Mixture of polyacrylamide.

| CAS No. | EINECS No. | Index No. | REACH Registration No. | Concentration range (%) | Name | Classification according to Regulation (EC) No 1272/2008 [CLP] |
|----------|------------|-----------|------------------------|-------------------------|-------------|--|
| 124-04-9 | 204-673-3 | - | 01-2119457561-38-XXXX | ≥2 – ≤ 6 | Adipic acid | Eye Irrit. 2 H319 |

For the full text of the H-statements mentioned in the Section, see Section 16.

SECTION 4: First-Aid Measures**4.1. Description of first aid measures**

Remove contaminated clothing.

If inhaled:

The product is not volatile.

On skin contact:

Remove contaminated clothing, footwear, watches, etc. And clean thoroughly before re-using them.

Wash immediately with plenty of water. Get medical attention if irritation develops and persists.

On contact with eyes:

Rinse immediately with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

On ingestion:

Immediately rinse mouth and drink at least 1.5 liters of water. Do NOT induce vomiting. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed**Both acute symptoms:**

If inhaled: No information available.

On skin contact: No information available.

On contact with eyes: May cause eye irritation.

On ingestion: No information available.

Delayed symptoms:

If inhaled: No information available.

On skin contact: No information available.

On contact with eyes: Tearing, redness, eye irritation.

On ingestion: No information available.

4.4. Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

SECTION 5: Fire-Fighting Measures**5.1. Extinguishing media****Suitable extinguishing media:**

All types of extinguishing media are suitable: water, dry powder, carbon dioxide, foam, sand and other.

Unsuitable extinguishing media:

None.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NO_x), carbon oxides (CO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3. Advice for fire-fighters

Wear protective working tools such boots, coveralls, gloves, eye and face protection.

SECTION 6: Accidental Release Measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Avoid contact with skin and eyes. Wear personal protective equipment as described under Heading 8.

6.1.2. For emergency responders

Avoid contact with skin and eyes. Wear personal protective equipment as described under Heading 8.

6.2. Environmental precautions

Do not wash product down sewage and drainage systems or into bodies of water.

6.3. Methods and material for containment and cleaning up

Absorb the spillage into sand or other inert material, shovel into suitable containers. If containment is not possible and material enters the drain, dilute as much as possible with water.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage**7.1. Precautions for safe handling**

No special measures necessary provided product is used correctly. In the workplace do not eat, drink or smoke.

Protection against fire and explosion: No special precautions necessary.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored in a cool, dry area in PVC or HDPE containers.

Storage stability:

Keep storage area should be dry, cool, 0 to 25 ° C. Avoid freezing, high and low temperatures and humidity.

Unsuitable (incompatible) storage of chemicals: No data.

7.3. Specific end use(s)

Used as flocculant for cleaning municipal and industrial wastewater.

The product is dosed after dilution of 0.2-0.05% with a dosing pump in proportion to the amount of water treated. Flocculant solutions keep their activity for no longer than 5 days.

SECTION 8: Exposure Controls/Personal Protection**8.1. Control parameters**

Components with occupational exposure limits: HN 23:2011 Lithuania:

| Substance | | Exposure limits | | |
|-------------|----------|--------------------------|--------------------------|--------------------------|
| Name | CAS No | Short-term effects, mg/l | Long-term exposure, mg/l | DNEL , mg/m ³ |
| Adipic acid | 124-04-9 | 4 | - | - |

Derived No and Minimum Effect Levels (DNELs/DMELs)**Adipic acid CAS no. 124-04-9****Workers**

Acute system effects:

Skin contact 38 mg/kg/day

Inhalation 264 g/m³

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Acute local effects:Inhalation 5 mg/m³Long-term systemic effects:

Skin contact 38 mg/kg/day

Inhalation 264 g/m³Long-term local effects:Inhalation 5 mg/m³**Consumers**Acute system effects:

Ingestion 19 mg/kg/day

Skin contact 19 mg/kg/day

Inhalation 65 g/m³Long-term systemic effects:

Ingestion 19 mg/kg/day

Skin contact 19 mg/kg/day

Inhalation 65 g/m³**Predicted no-effect concentrations (PNECs)****Adipic acid CAS no. 124-04-9**

Freshwater 0,126 mg/l

Marine water 0,126 mg/l

Intermittent release 0,46 mg/l

Sewage treatment plant 59,1 mg/l

Sediment (freshwater) 0,484 mg/l

Sediment (marine water)) 0,0484 mg/l Soil) 0,0228 mg/l

8.2. Exposure controls**8.2.1. Personal protective equipment**

General safety and hygiene measures: General indoor ventilation. Do not eat, drink or smoke when working with product to avoid contact with skin or mouth. Remove contaminated clothing, footwear, etc., and clean thoroughly before re-using them.

Respiratory protection. Not necessary.

Eye protection. Wear approved glasses or safety goggles to preset contact with eyes.

Skin protection. Wear rubber, PVC gloves (EN 374) usual work clothes, rubber boots to preset contact with skin.

8.2.2. Environmental exposure controls

Do not wash product down sewage and drainage systems or into bodies of water.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|--|---------------------------------|
| Form: | Powder granulated; |
| Colour: | White; |
| Odour: | Odourless; |
| Odour threshold: | Not determined; |
| pH, (1 % solution, at 20 °C): | 3,6 ÷ 4,6; |
| Melting / freezing point: | Not determined; |
| Density (at 20 °C): | 0,75 ± 0,05 g/cm ³ ; |
| Solubility: | Soluble in water; |
| Boiling point/range: | 100 ÷ 130 °C; |
| Flash point: | Not determined; |
| Evaporation rate: | Not determined; |
| Flammability: | Not self-igniting; |
| Partitioning coefficient n-octanol/water (log Kow): | Not applicable; |

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| | |
|-----------------------------------|-----------------|
| Self ignition: | Not determined; |
| Thermal decomposition: | Not determined; |
| Explosion hazard: | Not explosive; |
| Viscosity, dynamic (20°C): | Not determined; |
| Oxidizing properties: | None. |

9.2. Other Information

No data available.

SECTION 10: Stability and Reactivity**10.1. Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated. Hazardous polymerization does not occur.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated (see Heading 7).

10.3. Possibility of hazardous reactions

Oxidizing agents and alkalis may cause exothermic reactions.

10.4. Conditions to avoid

Avoid freezing, high temperatures, fire, oxidizing agents.

10.5. Incompatible materials

Alkalis, oxidizing agents.

10.6. Hazardous decomposition products

The product is stable, but heating may release hazardous decomposition products: CO_x, NO_x.

SECTION 11: Toxicological Information**11.1. Information on toxicological effects****Acute toxicity**

Eye contact. Direct contact with product may cause only slight eye irritation.

Skin contact. Not irritating. Tests with rat LD50>2000 mg/kg bw.

Ingestion. None. Tests with rat LD50>2000 mg/kg.

Inhalation. Not volatile.

11.2. Chronic effects

Inhalation. Not volatile.

Carcinogenicity. None.

Mutagenicity. None.

Reproductive toxicity. None.

Contact dermatitis/Sensitizing effect. No hazards resulting from the material as supplied.

11.3. Medical conditions aggravated by exposure

None.

SECTION 12: Ecological Information**12.1. Toxicity**

The product does not have any known adverse effects on the aquatic organisms tested. The addition of large amounts of product to water may cause a fall in pH (acidity).

Information on the product as supplied:*Acute toxicity to fish:**Acute toxicity to invertebrates:**Acute toxicity to algae:*

LC50/Danio rerio/96 hours = 5-10 mg/L (OECD 203)

EC50/Daphnia magna/48 hours = 20-50 mg/l (OECD 202)

Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

Chronic toxicity to fish:

No data available.

Chronic toxicity to invertebrates:

No data available.

Toxicity to microorganisms:

No data available.

Effects on terrestrial organisms:

No data available. Readily biodegradable, exposure to soil is unlikely.

Sediment toxicity:

No data available. Readily biodegradable, exposure to sediment is unlikely.

Relevant information on hazardous components:**Adipic acid***Acute toxicity to fish:*LC50/Danio rerio/96 hours \geq 1000 mg/l*Acute toxicity to invertebrates:*

EC50/Daphnia magna/48 hours = 46 mg/L (OECD 202)

Acute toxicity to algae:

IC50/Selenastrum capricornutum/72 hours = 59 mg/l (OECD 201)

Chronic toxicity to fish:

No data available.

Chronic toxicity to invertebrates:

NOEC/Daphnia magna/21 days = 6,3 mg/L (OECD 211)

Toxicity to microorganisms:

EC50/activated sludge/3 h = 4747 mg/L (OECD 209)

Effects on terrestrial organisms:

No data available.

Sediment toxicity:

No data available.

12.2. Persistence and degradability

Readily biodegradable. Completely soluble in water. Hydrolysis: At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

12.6. Other adverse effects

Additional advice: No data available.

SECTION 13: Disposal Considerations**13.1. Waste treatment methods**

Not classified as harmful to aquatic organisms. Not classified as harmful to birds. Not allowed to dispose of empty containers or waste into the environment. Dispose of according to the local legislation. Empty containers should be returned to the supplier.

Waste code: 19 08 99 (waste water treatment plant waste not otherwise specified). They can not be removed with household waste.

SECTION 14: Transport Information**14.1. UN Number**

None.

14.2. Proper Shipping Name

None.

14.3. Transport hazard class(es)

None.

14.4. Packing Group

None.

14.5. Environmental hazards

None.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

None.

The product is not covered by the international regulation on the transport of dangerous goods (IMDG/ IATA, ADR/RID) and therefore no classification is required. No special precautions are needed apart from those mentioned under Heading 8.

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

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010/EC, Regulation (EC) No 1272/2008 [CLP], Regulation No 2015/830/EC.

15.2. Chemical Safety Assessment

Chemical Safety Assessment not required.

SECTION 16: Other Information

IN-ECO® 882 - For professional use only.

IN-ECO® 882 - Safety data sheets and technical information developed by the manufacturer.

Full text of H-Statements

H319 Causes serious eye irritation.

Abbreviations:

CAS – Chemical Abstracts Service.

EINECS – European Inventory of Existing Chemical Substances.

GHS Globally Harmonised System of Classification and Labelling of Chemicals

CLP Classification, labelling and packaging of substances and mixtures.

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Product IN-ECO® 882 Label

The product is not classified as hazardous.

Pictogram:

None.

Signal Word:

None.

Dangerous components of the mixture:

None.

Hazard Statements:

None.

Precautionary Statements:

None.

The information on this data sheet reflects the currently available knowledge and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product, including the use of the product in combination with any other product or any other process, is the responsibility of the user. It is implicate that the user is responsible for determining appropriate safety measures and for applying the legislation covering his own activities. Safety data sheet available for professional user on request.

