

Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006, as amended

Version: EN-1.1

Date of compilation: 18.12.2014

Date of revision: 20.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name: eco sil
Systematic name: Diisononyl phthalate
CAS No.: 28553-12-0
REACH registration number 01-2119430798-28-XXXX

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

Identified uses of the substance or mixture: Plasticizer
Uses advised against: Undetermined.

1.3. Details of the supplier of the safety data sheet

Supplier: eco in spółka z ograniczoną odpowiedzialnością sp. k.
ul. Powsińska 18
02-920 Warszawa
Tel. +48 22 651 68 14
Fax: + 48 22 651 81 72
e-mail: biuro@ecoin.pl

E-mail of competent person responsible for Safety Data Sheet: biuro@ecoin.pl, lse1@wp.pl

1.4. Emergency telephone number

Tel.: + 48 22 651 68 14 (hours: 8 a.m. – 5 p.m., Monday - Friday) or 112 (24 h)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The product does not meet the criteria for classification in accordance with Directive 67/548/EEC and the relevant provisions of the Polish and Regulation (EC) No 1272/2008, as amended.

Adverse effects on human health:

Direct contact with eyes may result in a mild irritation, redness, tearing. Contamination of the skin with plenty of product may cause redness, itching. Prolonged inhalation of vapors may cause mild irritation of the mucous membranes of the nose and throat, headaches, nausea. If swallowed, may be irritation of the mucous membranes of the gastrointestinal tract and stomach, nausea, vomiting, abdominal pain.

Effects related to the physicochemical properties:

They are not known.

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Adverse effects on the environment

Proper use does not pose a risk to the environment.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008, as amended.

Hazard pictograms: not required.
Signal Word: not required
Risk Phrases: not required
Precautionary Statements: not required
 The product doesn't require a warning label.

2.3. Other hazards

The substance does not meet the criteria for PBT and vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name: Diisononyl phthalate

Index No.:	CAS No.:	EC No.:	% w/w
-	28553-12-0	249-079-5	100

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation:

Remove victim from exposure, place in a comfortable reclining or sitting position, keep calm, protect against heat loss. If necessary, call a doctor.

After contact with skin:

Remove contaminated clothing immediately. Wash off immediately contaminated skin with soap and water. If symptoms persist, seek medical advice.

After contact with eyes:

Remove contact lenses. Rinse thoroughly with plenty of water within 15 minutes. If symptoms persist, seek medical advice.

After ingestion:

Do not induce vomiting. If possible, rinse your mouth with water and give plenty of water to drink (if conscious). If symptoms persist, seek medical advice.

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

Direct contact with eyes may result in a mild irritation, redness, tearing. Contamination of the skin with plenty of product may cause redness, itching. Prolonged inhalation of vapors may cause mild irritation of the mucous membranes of the nose and throat, headaches, nausea. If swallowed, may be irritation of the mucous membranes of the gastrointestinal tract and stomach, nausea, vomiting, abdominal pain.

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

No special precautions. Apply symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Foam, carbon dioxide, dry chemical, water spray.

Not suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Toxic fumes may release in a fire: carbon monoxide (CO), carbon dioxide (CO₂).

Avoid breathing - may pose a health risk.

5.3. Advice for firefighters

Wear gas-tight protective clothing and breathing apparatus independent of the ambient air.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective equipment. Remove unsecured persons not involved in the removal of a failure from a danger zone. Avoid direct contact with the substance.

6.2. Environmental precautions

Protect from entering drains, surface and ground water and soil.

6.3. Methods and material for containment and cleaning up

Protect drains. Damaged container and put in another container. Absorb the product with chemically inert binding material (sand, diatomaceous earth) and give to disposal. Wash off contaminated surface with plenty of water.

6.4. Reference to other sections

Information regarding waste disposal, see section 13.

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

Provide adequate ventilation. It is advisable to take precautions, when working with substance in order to avoid contact with skin and eyes. Protect from getting into surface water, groundwater and soil. Do not eat, drink or smoke during use. Wash hands during breaks and after work. Remove contaminated clothing, wash before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, properly labeled, tightly closed containers in a cool, dry, well-ventilated storage area.

7.3. Specific end use(s)

No further recommendations.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**Exposure limit values for Poland

There are no designated national limits. Observe control parameters (if exists) in a country, where the product is used.

Recommended standards for the monitoring of dust in the workplace:

EN 689, EN 482.

PNEC

PNEC soil: 30 mg/kg of soil.

PNEC oral (repeated exposure): 150 mg/kg.

DNEL

DNEL is not available.

8.2. Exposure controls**General protective measures**

Ensure or enter control procedures whether labels on incoming containers are permanently fixed, legible and properly made. The employer must ensure that his staff knows the risk that the product may pose and safe practices. Control periodically the state of ventilation.

Hygiene measures

Observe the usual precautions when handling chemicals and dates of health and safety training. Do not use contaminated clothing, wash before reuse. Wear personal protective equipment.

8.2.1 Appropriate engineering controls

Apply adequate ventilation in the room.

8.2.2. Individual protection measures, such as personal protective equipment



Eye protection: safety glasses
Requirements for eye protection: EN 166.



Hand protection: gloves made of butyl
(thickness ≥ 0.6 mm, breakthrough time ≥ 480 min).
The requirements for the protection of hands: EN 374.



Skin protection: When you deal with large amounts of the product use protective clothing of natural materials (cotton) or synthetic fibers. The requirements for protective clothing: EN 943.



Respiratory protection:
In case of insufficient ventilation wear protection with particle filter marked in white and a symbol P2 filter and filter of vapors brown and with letter A.
Requirements for respiratory protection: EN 133.

Hygiene measures: observe general rules of industrial hygiene. Remove contaminated clothing after work. Wash hands and face before breaks. Do not eat, drink, or smoke during work.

8.2.3. Environmental exposure controls

Prevent penetration into water supply system, sewerage and waterways.
Determine procedures to follow in case of failure.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: colourless liquid
Odour: nearly without odour
Odour threshold: no data available
pH: no data available
Melting point/freezing point: Freezing Point: -54 ° C (DIN ISO 3016)
Initial boiling point and boiling range: 252.4 ° C (pressure of 7 mbar)
Flash point: Flash point: 240 ° C
Ignition temperature: 375 ° C (DIN 51794)
Evaporation rate: no data available
Flammability: difficult to ignite

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Upper/lower flammability or explosive limits:

Lower < 0.1% vol. (178.7 °C),

Upper: 0.4% vol. (210.4 °C)

Vapour pressure:

0.00001 Pa (20 °C)

Vapour density:

no data available

Relative density:

0.970 - 0.977 (water = 1) (DIN 51757)

Solubility:

Solubility in water: < 0.1 mg / l (25 °C, Directive 92/69 / EEC, A.6). Dissolved in organic solvents.

Partition coefficient: n-octanol/water: 9,27 (20 °C)

Auto-ignition temperature:

no data available

Decomposition temperature:

no data available

Viscosity (kinematic):

68 - 82 mPaxs (20 °C)

Explosive properties:

none

Oxidizing properties:

no data available

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

In the recommended conditions of storage and use – no reactivity.

10.2. Chemical stability

Under normal conditions of handling and storage the product is stable.

10.3. Possibility of hazardous reactions

They are not known.

10.4. Conditions to avoid

They are not known.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

They are not known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

According to current regulations, the classification criteria are not met.

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LD50 - oral rat > 10 000 mg/kg (test BASF)

CL50 - inhalation rat > 4.4 mg/l (4h) (IRT)

LD50 - leather rabbit > 3 160 mg/kg

Corrosion/irritation:

Based on available data, the classification criteria are not met (OECD Guideline 404)

Serious eye damage/irritation:

Based on available data, the classification criteria are not met (Draize test)

Sensitizing effects on the respiratory system or skin:

Based on available data, the classification criteria are not met (maximization test performed on guinea pig (Directive 92/69 / EEC, B.6))

Mutagenic effects on reproductive cells:

Based on available data, the classification criteria are not met (bacteria and mammalian cell cultures did not show any mutagenic effects, in mammalian studies the substance did not demonstrate mutagenic effect)

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

Developmental toxicity

Based on available data, the classification criteria are not met.

Toxic effects on target organs - single exposure:

Based on available data, the classification criteria are not met.

Toxic effects on target organs - repeated exposure:

Based on available data, the classification criteria are not met

Aspiration hazard:

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

Acute toxicity:CL 50 - fish (*Brachydanio rerio*) > 102 mg/l (96h) ((Directive 92/69/EEC, C.1, semistatic)EC50 - invertebrates (*Daphnia magna*) > 74 mg/l (48h) (Directive 92/69/EEC, C.2, static)EC50 - algae (*Scenedesmus capricornutum*) > 88 mg/l (72h) (growth rate) (Directive 92/69/EEC, C.3, static)

CE0 - bacteria (activated sludge) 83.9 mg/l (30 min) (OECD Guideline 209, water)

Chronic Toxicity:NOEC (284 days): 0,0185-0,0245 mg/g - fish (*Oryzias latipes*) (flow method)NOEC (21 days): > 101 mg/l - invertebrates (*Daphnia magna*) (OECD Guideline 202, part 2, semistatic)

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CL50 - earthworm (*Eisenia fetida*) > 7 372 mg/kg (14 days) (OECD Guideline 207, artificial soil)

NOEC (56 days): 982.4 mg/kg - earthworm (*Eisenia fetida*) (artificial soil)

12.2. Persistence and degradability

Readily biodegradable (according to OECD criteria)

Elimination information:

The release of CO₂: 81% relative to the theoretical value (28 days) (Directive 84/449/EEC, Part C.5) (aerobic sludge, municipal, unadapted).

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

Partition coefficient Octanol/water (K_{ow}): no data available

Bioconcentration factor (BCF): < 3 (14 days) (fish (*Oncorhynchus mykiss*))

Evaluation based on products with similar chemical properties.

12.4. Mobility in soil:

The substance gradually evaporates from the surface of the water to the atmosphere.

Adsorption on the particles of the solid phase of the soil is predicted.

12.5. Results of PBT and vPvB: does not meet the criteria for PBT and vPvB

12.6. Other adverse effects no data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Reduce the generation of waste to a minimum.

In the case of waste disposal, please contact your supplier.

Large quantities - dispose of of waste in accordance with applicable regulations. Packaging should be carefully emptied.

Reusable packaging can be (after cleaning) reused. Disposable packaging (after thorough cleaning) recycle.

Prevent the release of the product into the soil, watercourses and drains.

Always comply with national and local regulations.

Community law:

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives, as amended.

Council Directive 1999/31/EC of 26 April 1999 on the landfill of waste, as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, as amended.

Polish law:

The Act of 14 December 2012 on waste (O.J.2013.0.21), as amended.

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The Act of 13 June 2013 on packaging and packaging waste (O.J.2013.0.888).
 Regulation of the Minister of the Environment of 9 December 2014 on the catalogue of wastes, (O.J.2014.0.1923)
 Proclamation of the Marshal of the Polish Sejm on 4 September 2014 on publication of the consolidated text of the law on obligations of entrepreneurs in the field of management of certain wastes and on product fee, (O.J.2014.0.1413).

SECTION 14: Transport information

The product is **not** classified as dangerous material as defined in national and international transport regulations concerning the transport of dangerous goods.

ADR/RID/ADN, IMDG, IATA

14.1.-14.4 Not applicable.

14.5. Environmental hazards

The product does not pose a risk to the environment in accordance with the criteria in the UN Model Regulations.

14.6. Special precautions for user

Always transport in closed containers and properly secured. Ensure that persons transporting the product know what to do in case of failure.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Regulation (EC) 1907/2006 of the European Parliament and the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Regulation Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 and Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000 / 21/WE (Official Journal of the European Union, series L No 396 of 30 December 2006), as amended.

REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (EC) No 1272/2008 of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union, series L No 353 of 31 December 2008), as amended.

Act of 25 February 2011 on chemical substances and their mixtures (O.J.2011.63.322).

Regulation of the Minister of Health of 10 August 2012 on the criteria and classification of chemical substances and mixtures (O.J.2012.0.1018), as amended.

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Regulation of the Minister of Economy of 21 December 2005 on the basic requirements for personal protective equipment (O.J.2005.259.2173).

Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to occurrence of chemical agents at work (O.J.2005.11.86), as amended.

Regulation of the Minister of Health on 2 February 2011 on the tests and measurements of harmful factors in the work environment (O.J.2011.33.166).

Regulation of the Minister of Labour and Social Policy of 14.03.2000 on occupational health and safety in transport manual handling (O.J.2000.26.313), as amended.

15.2. Chemical safety assessment

No Chemical Safety Assessment available for this product.

SECTION 16: Other information

Diisononyl phthalate is a subject to restrictions (restriction 52) resulting from the Annex XVII to Regulation (EC) No 1907/2006, as amended:

1. Shall not be used as substances or in mixtures, in concentrations greater than 0,1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

2. Such toys and childcare articles containing these phthalates in a concentration greater than 0,1 % by weight of the plasticised material shall not be placed on the market.

3. The Commission shall re-evaluate, by 16 January 2010, the measures provided for in relation to this entry in the light of new scientific information on such substances and their substitutes, and if justified, these measures shall be modified accordingly. 4. For the purpose of this entry “childcare article” shall mean any product intended to facilitate sleep, relaxation, hygiene, the feeding of children or sucking on the part of children.

Recommendations for staff training

Prior to working with the product the user is required to know the safety rules for safe handling of chemicals, and above all, hold appropriate workplace training.

Other sources

- Information received from a supplier (SDS in Polish, Version 1.2/PL of 19.06.2007)

Changes:

Section 1 (E -mail competent person responsible for the SDS)

Section 3 (correction subsection title)

Section 13 (updated legislation)

Section 16 (added other sources)

Note

This Safety Data Sheet is not a quality certificate of the product. The information contained herein should be considered only as a help in safe handling the product in transportation, distribution use and storage. The information contained herein apply only to the product and its specific identified uses. They may not be proper or sufficient for the product used in combination with other materials or in other applications than those listed in this Safety Data Sheet. The user of the product is obliged to comply with all applicable standards and regulations, and responsibility resulting from improper use of information contained herein.