



Material Safety Data Sheet
According to EU Regulation 1907/2006 in the current version

Date 10/7/2015
Version 2.0

NIACINAMIDE

1. Identification of the substance/preparation and the company

Trade name: Niacinamide
Utilization: Cosmetic raw material
Supplier company: **Elemental SRL**, Piata Cazarmii no.15, 410188-Oradea, jud.Bihor, Romania
identification: Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: numar national pentru cazuri de urgenta: 021 3183606 Institutul de Sanatate Publica Bucuresti. International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2, H319 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC)

XiIrritant R36 For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word: Warning

Hazard statements: H319 Causes serious eye irritation.

Precautionary statements: Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards None known.

3. Composition / Information on ingredients

INCI name: niacinamide

CAS-No. : 98-92-0 EINECS-No. : 202-713-4

3.1 Substance Formula $C_6H_6N_2O$ (Hill)

Hazardous components (REGULATION (EC) No 1272/2008)

Chemical Name(Concentration) CAS-No. Registration number Classification

Nicotinamide <= 100% 98-92-0 Eye irritation, Category 2, H319

Hazardous components(1999/45/EC)

Nicotinamide (<= 100%) 98-92-0 Xi, Irritant; R36

3.2 Mixture Not applicable

4. First Aid

4.1 Description of first aid measures

After inhalation: move to fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

After eye contact: rinse out with plenty of water. Call in ophthalmologist.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed irritant effects: No information available.

4.3 Indication of any immediate medical attention and special treatment needed: No information available.

5. Fire-fighting Measures

5.1 Extinguishing media



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Suitable extinguishing media: Water, Carbon dioxide (CO₂), Foam, Dry powder

Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible. Risk of dust explosion. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. Fire may cause evolution of: nitrous gases.

5.3 Advice for firefighters

Special protective equipment for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing. Further information Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections Indications about waste treatment see section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling: Observe label precautions. Hygiene measures. Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities. Storage conditions: Tightly closed. Dry, well ventilated place, at room temperature (max. 25 °C).

7.3 Specific end use(s): Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure Controls and Personal Protection

Exposure controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier. Eye/face protection: Safety glasses recommended

Hand protection: Gloves. Nitrile rubber recommended.

Body protection: protective clothing, labcoat



Respiratory protection required when dusts are generated. Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Environmental exposure controls: Do not let product enter drains.



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9. Physical and Chemical Properties

Appearance:	crystalline powder
Colour:	white
Odour:	mild odour
Melting point:	128 - 131 °C (sublimed)
Boiling point:	150 - 160 °C at 0,0007 hPa
Flash point:	182 °C
pH value:	6,0 - 7,5 at 50 g/l at 20°C
Relative vapour density:	4.22
Density:	1,40 g/cm ³ at 20 °C
Solubility:	in water 700 g/l, in alcohol, in glicerol
Decomposition temp:	>= 200 °C

10. Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. Risk of dust explosion.

10.2 Chemical stability: Sensitivity to light

10.3 Possibility of hazardous reactions

Violent reactions possible with: strong oxidising agents

10.4 Conditions to avoid: Strong heating.

10.5 Incompatible materials: no information available

10.6 Hazardous decomposition products in the event of fire: See section 5

11. Toxicological Information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 3.530 - 3.540 mg/kg OECD Test Guideline 401

Acute inhalation toxicity: This information is not available.

Acute dermal toxicity LD50 Rabbit: > 2.000 mg/kg OECD Test Guideline 402

Skin irritation Rabbit Result: No irritation OECD Test Guideline 404

Eye irritation Rabbit Result: Eye irritation OECD Test Guideline 405 Causes serious eye irritation.

Sensitisation: This information is not available.

Germ cell mutagenicity: Genotoxicity in vitro. Mutagenicity (mammal cell test): micronucleus. Result: negative Method:

OECD Test Guideline 474 Ames test Result: negative (National Toxicology Program)

Carcinogenicity: Did not show carcinogenic effects in animal experiments. (Lit.)

Reproductive toxicity: This information is not available.

Teratogenicity: Did not show teratogenic effects in animal experiments. (Lit.)

Specific target organ toxicity - single exposure: This information is not available.

Specific target organ toxicity - repeated exposure: This information is not available.

Aspiration hazard: This information is not available.

11.2 Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

12. Ecological Information



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12.1 Toxicity

Toxicity to fish LC50 *Poecilia reticulata* (guppy): 4.200 mg/l; 96 h OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates EC50 *Daphnia magna* (Water flea): > 1.000 mg/l; 24 h OECD Test Guideline 202 Toxicity to algae NO EC *Desmodesmus subspicatus* (green algae): 560 mg/l; 72 h OECD Test Guideline 201 12.2 Persistence and degradability

Biodegradability 96 %; 28 d OECD Test Guideline 301E Readily biodegradable

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water log Pow: -0,38 (20 °C) OECD Test Guideline 107 Bioaccumulation is not expected.

12.4 Mobility in soil No information available.

12.5 Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Additional ecological information: Discharge into the environment must be avoided

13. Disposal Considerations

Dispose product and waste in accordance with local authority regulations.

14. Transport Information

Land transport (ADR/RID): Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN) : Not relevant

Air transport (IATA): Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG): Not classified as dangerous in the meaning of transport regulations.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant

15. Additional Regulatory Information

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

EU regulations

Major Accident Hazard Legislation SEVESO III: Not applicable Occupational restrictions : Take note of Dir 94/33/EC on the protection of young people at work.

National legislation Storage class: 10 - 13

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Full text of H-Statements referred to under sections 2 and 3:

H319 Causes serious eye irritation.

Full text of R-phrases referred to under sections 2 and 3:

R36 Irritating to eyes.

Full text of S-phrases referred to under sections 2 and 3:

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

Full text of P-phrases referred to under sections 2 and 3:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.