



SAFETY DATA SHEET

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

1.1 Product identifier

Trade name or designation of the mixture : LEVELEX-ECO SEAL 2K- Part B

Registration number : -
Synonyms :
Issue date :-
Version number :
Revision Date : -
Supersedes date : -

1.2 Relevant identified uses of the substance : No additional information available.
Or mixture and uses advised against

1.3 Details of the supplier of the safety data sheet

Company Name: LATICRETE EUROPE SRL
Address: Via Viazza, 1°Tronco,19 -41043 Formigine (MO) -ITALY
Telephone: +39 059 557680
Contact Person: M.Bertani
E-Mail: info@laticreteeurope.com
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1.4 Emergency telephone no: Centro Antiveleni Policlinico A. Gemelli – ROMA – Tel +39 06 3054343

SECTION 2: Hazards identification.

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008

Acute Tox. 4	H332 Harmful if inhaled.
Skin Sen. 1B	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long-lasting effects.

2.2 Label elements

Labeling according to regulation (EC) No. 1272/2008

The Product is classified and labeled according to the CLP-regulation.

Hazard pictograms



GHS07

Signal word: Warning

Hazardous component(s) to be indicated on label:

Hydrophilic aliphatic polyisocyanate

Hazard statements

H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long-lasting effects.

(Continued from page 1)

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3 Other Hazards

None in case of intended use.

Results of the PBT and vPvB assessment

PBT : NA

vPvB : NA

SECTION 3: Composition/information on ingredients.

3.2 Chemical characterization: Mixtures

Name	CAS No.	EC No	Percentage	Classification
Hydrophilic aliphatic polyisocyanate	160994-68-3	924-503-8	50 – 100%	Acute Tox. 4, H332; Skin Sens. 1B, H317; STOTSE3, H335; Aquatic Chronic 3, H412

List of abbreviations and symbol may be used above

CLP: Regulation No.

1272/2008. DSD:

Directive 67/548/EEC.

Additional information: NA

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice:** Take off all contaminated clothing immediately.
- After skin contact:** Change soaked clothes. Wash affected skin with plenty of water and soap. In case of persistent symptoms consult doctor.
- After eye contact:** Rinse open eyes with preferably lukewarm water for at least 10 minutes and consult doctor.
- After ingestion:** DO NOT induce vomiting; call for medical help immediately.
- After inhalation:** Ensure supply of fresh air. Consult doctor on complaints

4.2 Most important symptoms and effects, both acute and delayed

- Notes for physician:** Basic first aid, decontamination, symptomatic treatment.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

General fire hazards

5.1 Extinguishing media

Suitable extinguishing media:

Foam, dry fire-extinguishing substance, carbon dioxide, water spray jet (in case of larger fires)

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture:

Burning releases carbon dioxide, carbon monoxide, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.

5.3 Advice for fire-fighters

During fire-fighting respirator with independent air supply and airtight garment is required.

Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures necessary.

6.2 Environmental precautions



Do not allow to enter sewage system, ground water, waters or ground.

6.3 Methods and material for containment and cleaning up

Pump off larger quantity.

Take up with absorbent material (i.e. sand, sawdust, general-purpose binder, kieselgur).

Flush away residues with water.

After taking up the material dispose according to official laws.

6.4 Reference to other sections

For information regarding safe handling see section 7.

For information regarding personal protective equipment see section 8.

For information about disposal see section 13.

SECTION 7: Handling and storage

(Continued on page 3)

7.1 Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms Exhaust ventilation necessary if product is sprayed. The threshold limit values noted in section 8 must be monitored, in all areas where isocyanate aerosols and/or vapor concentrations are produced in elevated concentrations, exhaust ventilation must be provided in such a way that the workplace exposure limits (WEL) is not exceeded. The air should be drawn away from the personnel handling the product.

The personal protective measures described in section 8 must be observed. The precautions required in the handling of isocyanates must be taken. Avoid contact with skin and eyes and the inhalation of vapor.

Keep away from foodstuffs, drinks and tobacco. Wash hands before breaks and at end of work and use skin-protecting ointment. Keep working clothes separately. Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry in a cool, well-ventilated place.

Hints for combined storage: None

Further information on storage conditions: None

Storage class (TRGS 510): Storage class 1 – Combustible liquids.

Classification according to industrial safety regulations (BetrSichV): -

Specific end uses: No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Control parameters:	
822-06-0 Hexamethylene-1,6-diisocyanate (<0,5%)	
MAK	0.0351 mg/m ³ ; 0.005 mg/m ³ DFG

Substance: Workplace exposure limits are not applicable to this product.

8.2 Exposure controls:

Engineering controls: Ensure there is sufficient ventilation of the area..

Respiratory protections: Respiratory protection is not required.

Hand protection: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact. The availability of an eye bath or eyewash is also advised



Skin protection: A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately

- **Other** : Wear appropriate chemical resistant clothing.



Respiratory protection : If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls : Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form: Liquid
Color: Colourless to yellowish
Odour: Almost odourless

Change of state

Melting point: -18°C
Boiling point: < 300°C
Flashpoint: approx. 230°C
Ignition temperature: approx. 435°C

Auto-ignition properties: The product is not self-igniting.

Explosive properties: The product is not explosive.

Density (20°C): 1.16 g/cm³

pH-value: Not applicable.

Viscosity dynamic: approx. 6500 mPa·s at 23°C

9.2 **Other information:** No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 **Reactivity:** Stable

10.2 **Chemical stability:** Stable under recommended storage conditions.

Thermal decomposition: No decomposition if used according to specifications.

10.3 **Possibility of hazardous reactions:** No hazardous reactions known.

10.4 **Conditions to avoid:** No further relevant information available.

10.5 **Incompatible materials:** No further relevant information available.

10.6 **Hazardous decomposition products:** None, if handled and stored appropriately.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

1 Information on toxicological effects

Acute toxicity, oral:

Hydrophilic aliphatic polyisocyanate

LD50 rat: > 2000 mg/kg

Studies of a comparable product.

Acute toxicity, dermal:

Hydrophilic aliphatic polyisocyanate

LD50 rat, male/female: < 2000 mg/kg

Method: OECD Test guideline 402

Studies of a comparable product.

Acute toxicity, inhalation:

Hydrophilic aliphatic polyisocyanate

LC50 rat female: 0.390 mg/l, 4h

Test atmosphere: dust/mist

Method: OECD Test guideline 403

Studies of a comparable product.

The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgement and the weight of the evidence, a modified classification for acute inhalation toxicity is justified.

Converted acute toxicity point estimate:

1.5 mg/l

Test atmosphere:

dust/mist

Method:

Expert judgement

Assessment:

Harmful if inhaled

Sensitization:

No sensitizing effect known.

Primary skin irritation:

Hydrophilic aliphatic polyisocyanate

Species: rabbit

Result: slight irritant

Classification: No skin irritation

Method: OECD Test guideline 404

Studies of a comparable product.

Primary mucosae irritation:

Hydrophilic aliphatic polyisocyanate

Species: rabbit

Result: slight irritant

Classification: No eye irritation

Method: OECD Test guideline 405

Studies of a comparable product.

Sensitisation:

Hydrophilic aliphatic polyisocyanate

Skin sensitisation according to Magnusson/Kligman (maximizing test):

Species: Guinea pig

Result: Positive

Classification: H317: May cause an allergic skin reaction (Sub cat. 1B)

Method: OECD Test guideline 406

Studies of a comparable product.

Respiratory sensitisation:

Classification: No classification according to EC directives 2006/121/EG or 1999/45/EG as respiratory sensitizer.

No pulmonary sensitization observed in animals tests.

No pulmonary sensitization potential was observed in guinea pigs after either intradermal or inhalative induction with polyisocyanate based on hexamethylene diisocyanate.

Subacute-, subchronic- and prolonged toxicity: No data available.

Carcinogenicity:

No data available.

Reproductive toxicity/Fertility:

No data available.

Reproductive toxicity/Teratogenicity:

No data available.

Genotoxicity in vitro:

Hydrophilic aliphatic polyisocyanate
Test type: Salmonella/microsome test (Ames test)
Result: No indication of mutagenic effects.
Method: OECD Test guideline 471
Studies of a comparable product.

Genotoxicity in vivo: No data available.

Additional toxicological information:

The Product is not classified and labeled according to the calculation method of the General EC Classification Guidelines for mixtures as issued in the latest version

STOT evaluation – one-time exposure: Hydrophilic aliphatic polyisocyanate. May cause respiratory irritation.

STOT evaluation – repeated exposure: Hydrophilic aliphatic polyisocyanate
Based on available data, the classification criteria are not met.

(Continued from page 4)

Aspiration toxicity: Hydrophilic aliphatic polyisocyanate
Based on available data, the classification criteria are not met.

Additional information:

Special properties/effects: Over-exposure, especially when spraying coatings containing isocyanate without the necessary precautions, entails the risk of concentration-dependent irritating effects on eyes, nose throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, and asthma) are possible. Hypersensitive persons may suffer from these effects even at low isocyanate concentrations, including concentrations below the occupational exposure limit. Prolonged contact with the skin may cause tanning and irritant effects. Animal tests and other research indicate that skin contact with diisocyanates can play a role in causing isocyanate sensitization and respiratory reaction

SECTION 12: Ecological information**Toxicity****Aquatic toxicity:****Acute Fish toxicity**

Hydrophilic aliphatic polyisocyanate
LC50 28.3 mg/l
Species: Danio rerio (zebra fish)
Exposure duration: 96 h
Method: OECD Test guideline 203
Studies of a comparable product.

Acute toxicity of daphnia

Hydrophilic aliphatic polyisocyanate
EC50 > 100 mg/l
Species: Daphnia magna (water flea)
Exposure duration: 48 h
Method: OECD Test guideline 202
Studies of a comparable product.

Acute toxicity for algae

Hydrophilic aliphatic polyisocyanate
ErC50 > 100 mg/l
Species: Scenedesmus subspicatus
Exposure duration: 72 h
Method: OECD Test guideline 201
Studies of a comparable product.

Acute bacterial toxicity

Hydrophilic aliphatic polyisocyanate
EC50 > 10000 mg/l
Species: Activated sludge

Method: OECD Test guideline 209
Studies of a comparable product.

12.2 Persistence and degradability

Hydrophilic aliphatic polyisocyanate
Biodegradation: 2%, 28d, i.e. not readily degradable
Methode: OECD Test guideline 301 F
Studies of a comparable product.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

Behaviour in sewage processing plants:

With the appropriate introduction of low concentrations into adapted biological wastewater treatment plants there should not be any inhibition of the degradation activity of activated sludge.

General information:

Water hazard class 1 (self-classification): Slightly hazardous to water
Do not allow to enter ground water, waters or sewage system in undiluted form or in higher quantities.

12.5 Results of the PBT and vPvB assessment

PBT: Inapplicable.

vPvB: Inapplicable.

12.6 Other adverse effects:

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Recommendation:

Disposal according to official laws.



Do not dispose with household waste. Do not allow to enter sewage system.

European Waste Catalogue:

08 01 11 Paint and lacquer waste

Uncleaned packaging:

Recommendation: Disposal according to official laws.

SECTION 14: Transport information

14.1 UN-Number

ADR, ADN, IMDG, IATA : Void

14.2 UN Proper shipping name

ADR, ADN, IMDG, IATA: Void

14.3 Transport hazard classes

ADR, ADN, IMDG, IATA:

Class: Void

Label: Void

14.4 Packing group

ADR, ADN, IMDG, IATA : Void

Kemler-Number: Void

EMS-Number: Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user: See sections 6 – 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Inapplicable

Transport/ additional information: None

UN "Model Regulation": -

SECTION 15: Regulatory information

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

National regulations:

Classification according to industrial safety regulations (BetrSichV): -

Water hazard class: WGK 1 (self-classification): Slightly hazardous to water

Additional regulations, limitations and prohibitive regulations

BGR 192 "Rules for the use of equipment for eye and face protection"

BGR 189 "Rules for the use of protective clothing "

BGR 195 "Rules for the use of protective gloves "

15.2 Chemical Safety Assessment: For this substance a chemical safety assessment is not required.

16. OTHER INFORMATION

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Data sheet issuing department: Laboratory

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

*** Data changed compared to the previous version.**

This document replaces all previous versions. The information provided in this safety data sheet is based on our present state of knowledge and comply with national and EU legislations. The given working conditions of the user, however, are deprived to our knowledge and control. It is not allowed, to use this product in any other application then outlined in section 1 without written authorization. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The details in this safety data sheet describe the safety requirements for our products and offer no assurance as to the product's properties. We assume no liability for mistakes in this printed form.