
Safety Data Sheet according to Commission Regulation (EU) No 453/2010.

Last rev. 0000, 17/04/2013

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

1.1 Product identifier

Commercial name: **BKK eco**
REACH Pre-registration No: N/A.

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

Clear coating for the protection of absorbent walls made of bricks, stones, cement from wind driven rain.

1.3 Details of the supplier of the safety data sheet

Diasen s.r.l.
Z.ind.le Berbentina, 5
60041 Sassoferrato An – Italia
Tel. +39 0732 9718
Fax +39 0732 971899
E-mail: diasen@diasen.com

1.4 Emergency telephone number: Diasen s.r.l. Tel. 0732/9718

Available 24 hours? No.

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under GHS (Globally Harmonized System) Regulation

The product is not dangerous.

Classification under Directives 67/548/CEE, 99/45/CE and successive amendments (2001/60/CE and 2006/08/CE)

The product is not dangerous.

2.2 Label elements

Labelling under GHS (Globally Harmonized System) Regulation

It contains 3-(trietossisilil) propilamina. It can cause allergy.

Labelling under Directives 67/548/CEE, 99/45/CE and successive amendments (2001/60/CE and 2006/08/CE)

The product is not subjected to label according to EC directives.

2.3 Other hazards

This product hydrolyses by forming ethanol (n. CAS 64-17-5). Ethanol is easily flammable.

EU. EINECS (EINECS):

This product is in compliance with European Inventory of Existing Commercial chemical Substances (EINECS).

Classification and labeling have been made on the basis of safety data sheets of the raw materials that compose the product.

3. Composition/information on ingredients

Dangerous components in compliance with Directive 1999/45/EC and Regulation EC 1272/2008: none

For full text of danger classes, R-phrases and H- phrases: see section 16.

Impurity:

It does not contain relevant impurities for classification and labeling.

4. First aid measures

4.1 Description of first aid and measures

General information:	no delayed effects are know. Medical attention is required for all exposure but small, showing this safety data sheet.
In case of inhalation:	air the room. Remove to fresh air immediately and leave him to rest. In case of discomfort seek medical attention, showing this safety data sheet.
In case of skin contact:	immediately flush skin with plenty of soap and water as a precautionary measure. Do not use abrasive or solvent substances to wash hands. Immediately take off contaminated shoes and clothes. If inflammation or irritation occurs, consult a doctor, showing this safety data sheet.
In case of eyes contact:	immediately flush eyes with plenty of water for at least 10 mins, keeping eyelids open. If irritation persists, consult a doctor, showing this safety data sheet.
In case of ingestion:	rinse mouth with water and drink plenty of water in small sips. Do not induce vomiting. If the unfortunate vomit while he is on his back, turn on his side. Never give anything by mouth to an unconscious person. Consult a doctor, showing this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptom:	N/A.
Dangers:	N/A.

4.2 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment (decontamination, vital function).

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, dry chemical powder, foam resistant to alcohol, sand or CO₂. Use extinguishing media which are compatible with local regulations.

Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: alcohols, nitrous gases.

Prevent extinguishing liquid flowing to the soil, sewers or waterways.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and extinguishing media which are compatible with local regulations. Wear protective clothing to prevent contact with skin and eyes: anti-flame overall, gloves and anti-heat shoes.

Combustion residues and extinguishing contaminated water must be eliminated in compliance with local, national and European regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Keep out people that do not wear any protection equipment.

Avoid skin and eyes contact – wear suitable protection equipment (see section 8). Avoid breathing vapours.

Eliminate free flames and possible sources of ignition. Do not smoke.

Material can create slippery surfaces.

6.1.2 For emergency responders

Keep out people that do not wear any protection equipment.

Avoid skin and eyes contact – wear suitable protection equipment (see section 8). Avoid breathing vapours.

Eliminate free flames and possible sources of ignition. Do not smoke.

Material can create slippery surfaces.

6.2 Environmental precautions

Contain spreading. Do not discharge into drains or rivers. In case of spill into water course, alert Environment Agency or any other authority for the environmental protection.

6.3 Methods and material for containment and cleaning up

Small quantities: mix with absorbent materials (sand, sawdust, universal binder, diatomaceous earth), scoop solids into a suitable labeled container and dispose following current local, national and European regulations. If the spill happens in close containers aerate the room.

Big quantities: mechanically suck the product, scoop solids into a suitable labeled container and dispose following current local, national and European regulations. Eliminate vapours. Eliminate the slippery surface if present with diluted soap/detergent or other biodegradable detergent. Eliminate free flames and possible source of ignition. Do not smoke.

6.4 Reference to other sections

Refers to section 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling

7.1.1 Protection measures

Avoid skin, eyes and mucous membranes contact. Wear personal protection equipment for hands, eyes, skin and respiratory system (see section 8). Do not wear contact lenses while using this product. Avoid breathing vapor or mist. If present, adopts special means of protection (suction, protection of respiratory system). Aerate well the premises and workplace. The spilled substance can create slippery surface.

Indication on fire protection and explosion:

The product can generate ethanol. In closed premises, vapours can create a mix with the air, that in case of ignition source can cause explosion even inside closed empty containers not cleaned. Keep away from source of ignition and do not smoke. Be careful to electrostatic charges. Cool down with water dangerous containers.

7.1.2 Advice on general occupational hygiene

Avoid inhalation, ingestion or skin/eyes contact. General occupational hygiene measures are required to guarantee the safe manipulation of the material. These measures are: good personal practices, regular cleaning of the workplace, do not drink, eat or smoke in the workplace, wash your hands after any manipulation, take a shower and change clothes at end of each work shift. Do not bring contaminated clothes at home. Separate working clothes from the others. Wash them separately.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry places, away from sunlight, water and ice, at temperature between +5°C and +35°C, in its original container tightly closed. Keep away from sources of ignition. Keep out from the reach of children.

If the product is stored on the construction site, it must be protected by sun, ice and water and kept at temperature between +5°C e +35°C.

Storage/handling room must have eyewash.

When the product is heated up it is possible that it creates monomer vapors. See section 8 for ventilation/aeration equipment.

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits are listed below, when present.

8.2 Exposure control

It is recommended to use it only outside or in areas equiped with ventilation systems. Wear personal protection equipment (glasses and protective clothes, safety shoes).

Storage/handling room must have eyewash.

8.2.1 Appropriate engineering controls

None.

8.2.2 Individual protection measures, such as personal protective equipment

a) Eye/face protection

Do not use contact lenses. Wear protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European standard EN 166. Use eyes protection compatible with the system used to protect respiratory system.

b) Skin protection

Wear protective gloves suitable for chemical agents (protection index 6, equal to permeation time > 480 minutes), waterproof and in compliance with UNI EN 374 parts 1 and 2 (neoprene gloves). Always keep in mind that, because of several factors (such as temperature), the lasting of a protection glove against chemical agents can be less than permeation time tested. If gloves are damaged or worn change them. Wear standard protective clothes that can cover the entire skin surface, long trousers, long sleeved overalls tight at the ends and safety shoes.

c) Respiratory protection

Use respiratory protection equipment, CE marked, in compliance with current regulation (Directive 89/656/CEE, 89/686/CEE) when risks for respiratory system cannot be avoid or limited.

Adequately aerate room where the product is handled/stored.

d) Thermal hazards

If the product is heated up it is possible that it creates monomer vapors.

8.2.3 Environmental exposure controls

Avoid discharge into the environment. In case of massive spill into water courses, alert Environmental Agency or other agency for the environmental protection.

9. Physical and chimica properties

9.1 Information on basic physical and chiminal properties

Appearance:	liquid.
Colour:	red.
Odour:	acrilic.
Odour threshold:	N/A.
Melting point:	0°C water.
Boiling point:	100°C water.
Solubility in water:	it can be diluted.
Flammability:	non-flammable.
Explosive properties:	non-explosive.

Note: The values presented above about the physical and chemical properties are typical values for this product and should not therefore be considered as a specification.

9.2 Other information

Miscibility in water: miscible.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Stable under recommended transport or storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction under recommended transport or storage conditions.

10.4 Conditions to avoid

Store in dry places, away from sunlight, water and ice, at temperature between +5°C and +35°C, in its original container tightly closed. Keep away from sources of ignition. Keep out from the reach of children.

If the product is stored on the construction site, it must be protected by sun, ice and water and kept at temperature between +5°C e +35°C.

Storage/handling room must have eyewash.

When the product is heated up it is possible that it creates monomer vapors. See section 8 for ventilation/aeration equipment.

10.5 Incompatible materials

Keep away from acids, free flames, ignition spark and heat sources.

10.6 Hazardous decomposition products

When the product is heated up it is possible that it creates monomer vapors.

10.7 Polimerization

The product does not create polimerisation.

11. Toxicological information

Acute toxicity:	Oral LD ₅₀ > 5000 mg/kg weight (rat);
Skin corrotion/irritation:	Dermal irritation (rubbit): LD ₅₀ > 5000 mg/kg weight. It can cause temporary irritation No eyes irritation for rabbit.
Respiratory irritation:	the eventual exposure to fumes caused by high temperature can be irritant for the respiratory system.
Respiratory or skin sensitisation:	N/A
Germ cell mutagenicity:	N/A
Carcinogenicity:	N/A
Reproductive toxicity:	N/A
Growth toxicity:	the available data do not allow a proper assessment of a possible toxic effects of the substance.
Repeated dose toxicity and specific organ toxicity (prolonged exposure):	N/A
Other indications on toxicity:	in case of proper use and handling in accordance with the requirements, based on our experience and the information available, the product do not cause adverse health effects.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of the raw materials that compose the product.

12. Ecological information

Use according to good working practices, avoiding disposal in the environment.

12.1 Toxicity

12.1.1 Acute/prolonged toxicity on fishes

Componente: Alcoli, C12-14-secondari, etossilati

CL₅₀ Pimephales promelas 96 h 2 000 mg/l

CL₅₀ Fish 96 h >100 mg/l

12.1.2 Acute/prolonged toxicity on aquatic organism

N/A

12.1.3 Acute/prolonged toxicity on aquatic plants

N/A

12.1.4 Toxicity on microorganism (eg. bacteria)/effect on active fungus

N/A

12.1.5 Chronic toxicity on aquatic organism

N/A

12.1.6 Toxicity on soil organism

N/A

12.1.7 Toxicity on plants

N/A

12.1.8 General effect

N/A

12.2 Persistence and degradability

N/A

Consideration on disposal: N/A.

Do not pour the product into pipelines and waterways, if the product has flowed into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

Assessment on transport between environmental compartments: N/A

12.5 Results of PBT and vPvB assesment

N/A

12.6 Other adverse effects

N/A

12.7 Additional indication

AOX: N/A

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of the raw materials that compose the product.

13. Disposal considerations

13.1 Waste treatment methods

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and send it into the chemical sewer collection. For disposal, eliminate the product in a suitable incineration plant, in accordance with local, national and European regulations.

The preparation is not suitable for disposal in landfills and/or public waters, canals, natural waterways or rivers.

The package used is intended exclusively for the packaging of this product, it must not be reused for other purposes. Containers, even when completely empty, must not be discarded in the environment and should be subjected to a decontamination treatment before being sent for disposal. If they contain residues must be classified, stored and sent to a suitable treatment facility in accordance with applicable local, national and EU regulations.

14. Transport information

Product classified as non dangerous for transport (land transport ADR/RID, sea transport AND/IMDG / GGVSea, air transport IATA/ICAO).

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Product classified as non dangerous for transport.

14.4 Packaging group

Not regulated.

14.5 Environmental hazards

Product classified as non dangerous for transport.

14.6 Special precautions for user

Product classified as non dangerous for transport.

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

Product classified as non dangerous for transport.

Transportation classifications may vary according to the capacity and the type of container and according to the different national legislations.

15. Regulatory information

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

Authorization: not requested.

Restrictions on the use: none.

Other European regulations: the product does not contain substances listed in SEVESO Directive, neither substances that deplete the ozone layer nor persistent organic polluting substances (POP).

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances;

Directive 2006/8/CE (D.M. 03/04/2007);

Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency;

Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.

National regulation:

D.P.R. 1124/65 (testo unico delle disposizioni per l'assicurazione obbligatoria contro gli infortuni sul lavoro e le malattie professionali);
D. Lgs n. 475/82 e s.m.i. (Attuazione della Direttiva 89/686/CEE del Consiglio del 21/12/1989 in materia di ravvicinamento delle legislazioni degli Stati Membri relativi ai dispositivi di protezione individuale);

Legge n. 52 del 03/02/1997;

D.M. 28/04/1997;

D.M. 04/04/1997;

D.M. 07/09/2002 (Attuazione delle direttiva 2001/58/CE);

D. Lgs. 65 del 14/03/2003 (Attuazione delle Direttive 1999/45/CE e 2001/60/CE);

D. Lgs n. 152/2006 e s.m.i. (norme in materia ambientale);

D. Lgs. 81/2008 e s.m.i. (attuazione dell'art. 1 della Legge 03/08/2007 in materia di tutela della salute e della sicurezza nei luoghi di lavoro).

15.2 Chemical safety assesment

Not needed. Exempt from REACH registration.

16. Other information

16.1 Danger symbol

Xi irritant.

16.2 Hazard statements (H-phrases)

H 319: Causes serious eye irritation.

16.3 Precautionay statements (P-phrases)

P102: Keep out of reach of children.

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

P305/P351: IF IN EYES: Rinse continuously with water for several minutes.

P310: Immediately call a POISON CENTER or doctor/physician.

P302/P352:	IF ON SKIN: Wash with soap and water.
P304/P340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P338:	Remove contact lenses if present and easy to do. Continue rinsing.

16.4 Relevant R-phrases

R 36:	Irritating to the eyes.
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16.5 Relevant S-phrases

S2:	Keep out of the reach of children.
S25:	Avoid contact with eyes.
S26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37:	Wear suitable gloves.
S39:	Wear eye/face protection.

16.6 Abbreviations and acronyms

EC ₅₀ :	median effective concentration
LC ₅₀ :	median lethal concentration
LD ₅₀ :	median lethal dose
NOEC:	no observable effect concentration
PNEC:	predicted no-effect concentration
OEL:	occupational exposure limit
PBT:	persistent, bioaccumulative, toxic chemical
vPvB:	very persistent, very bioaccumulative
STEL:	short-term exposure limit
TWA:	time weighted average
OIM:	International Maritime Organization
IMDG:	International Maritime Dangerous Goods
IATA:	International Air Transport Association
ADR/RID:	Agreement on Dangerous Goods by Road / Regulations concerning the Intl Transport of Dangerous Goods by Rail.
SCOEL:	Scientific Committee on Occupational Exposure Limits.
CSAH:	Comité Scientifique en matière d'Alimentation Humaine.

16.7 Bibliography

The Merck Index Ed. 10;
Handling Chemical Safety;
Anonimo, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food, European Food Safety Authority, ISBN: 92-9199-014-0 [documento SCF].
Anonimo, 2007: HERAG fact sheet - assessment of occupational dermal exposure and dermal absorption for metals and inorganic metal compounds; EBRC Consulting GmbH, Hannover, Germania; agosto 2007.
Anonimo, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)₂), Direzione Generale per

l'Occupazione, gli Affari Sociali e le Pari Opportunità della Commissione Europea, SCOEL/SUM/137 febbraio 2008.

MEASE: Metals estimation and assessment substance exposure, EBRC Consulting GMBH for Eurometaux, <http://www.ebrc.de/ebrc/ebrc-mease.php>

Bureau Européen des substances Chimiques (ECB)

CIRC (Centre International de Recherche sur le Cancer)

HSDB (Hazardous Substances Data Bank) (National Library of Medicine).

INRS (Institut National de Recherche et de Sécurité).

IUCLID (International Uniform Chemical Information data Base).

RTECS (Registry of Toxic effects of Chemical Substances).

NIOSH – Registry of toxic effects of chemical substances (1983).

Istituto Superiore di Sanità – Schede tossicologiche di solventi organici utilizzati in cicli tecnologici industriali (1985).

Istituto Superiore di Sanità – Inventario nazionale sostanze chimiche.

ECDIN – Environmental chemicals data and information network – Joint research centre, Commission of the European Communities.

ACGIH – Threshold limit values (2000).

SAX'S – Dangerous properties of industrial materials – tenth edition.

Disclaimer:

This Safety Data Sheet (SDS) is based on the legal regulations listed in REACH Regulation (CE/1907/2006), and successive amendments and integration.

The information enclosed in this SDS are based on the information reported in the SDS of the raw materials that composed the product and are based on our knowledge at the above date. The information relates only to this specific product and may not apply to the same when used in combination with other materials or in any process unless specified in product safety data sheet. They are only reported to the indicated product and they do not constitute guarantee of special qualities.

No statement or guarantee concerning accuracy, reliability and completeness of the information contained in this SDS is released. The Company does not assume any liability for damages to persons or property that may result from use the product other than that for which it was intended. The SDS does not replace but complements the text or the rules that regulate the activity of use.

The user must make sure of these information suitability and completeness in relation to the specific use he has to do.

This schedule revokes and replaces any previous edition.

Indications of changes to the previous version of the SDS: review of the entire document.

This SDS is available in electronic format on the website: www.diasen.com.