SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation

(EU) No. 453/2010

BCED Líquido concentrado componente B

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

1.1 Product identifier

Product name : BCED Líquido concentrado componente B

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

Product use Coverings Resin Systems

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: : TOPCRET TECNOLOGIA EN REVESTIMIENTOS S.L.
Gran Vía de Les Corts Catalanes, 828
08013 Barcelona - España

Telephone :+34 932 741 208

Contact Person :info@topcret.com

1.4 Emergency telephone number

Toxicological Information Medical Service 91 562 04 20

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr./Irrit. 2 H315
Acute Tox. 4 H302
Eye Dam/Irrit. 1 H318
STOT SE 3 H335
Aquatic Chronic 3 H412

Classification according to Directive 1999/45/EC [DPD]

Classification	:	Xn, R32 Xi, R41 R37/38 R52/53
Physical/chemical hazards	:	Not applicable.
Human health hazards	:	Harmful if swallowed. Risk of serious damage to eyes. Irritates Respiratory system and skin.
Environmental hazards	:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

2.2 Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements :
H 318 Causes serious eye damage.
H 315 Causes skin irritation.
H 302 Harmful if swallowed
H 335 May cause respiratory irritation
H 412 Harmful to aquatic life with long lasting effects

Precautionary statements

Prevention	:	Wear protective gloves. Wear eye or face protection. Avoid release to the environment.
Response	:	IF INHALED: Remove victim to fresh air and keep at rest in a comfortablepara breathe position IF IN EYES: Immediately call a poison control center or doctor
Storage	:	Store locked up.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Ployamine/polyglycol – epoxy resin adduct
Supplemental label elements	:	Not applicable.

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Not applicable.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers	% by weight	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Polyamine/polyglycol - epoxy resin adduct	CE: Índice:	>=50 - <75 R41	xn; R22 R37/38 R52/53		[1]

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

See Section 16 for the full text of the R phrases or H statements declared above.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact
Get medical attention immediately. Call center Toxicological or physician. Rinse eyes immediately with plenty of water, occasionally lifting the upper and lower eyelids. Remove victim leads lens touch and comfortable for breathing. Continue to rinse for at least 10 minutes. Chemical burns must be treated immediately by a doctor.

Inhalation
Get medical attention immediately. Call center Toxicological or physician. Remove victim to fresh air and keep at rest in comfortable position for tub breathe. If it is suspected that fumes are still present, the the rescuer should wear an appropriate mask or Self-contained breathing apparatus. If not breathing, this is irregular or if respiratory arrest occurs, trained personnel provide artificial respiration or oxygen. It would be dangerous to

	unconscious, place in recovery position and get attention medical immediately. Ensure good air circulation. Could Loosen tight clothing such as a collar shirt, tie, belt or waistband.
Skin contact	Get medical attention immediately. Call center Toxicological or physician. Wash with plenty of water contaminated skin. Remove contaminated clothing and shoes. Wash contaminated clothing with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. The Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Thoroughly clean footwear before reuse.
Ingestion	Get medical attention immediately. Call center Toxicological or physician. Rinse mouth with water. Remove dentures if possible. Remove victim to fresh air and keep at rest in a comfortable position breathe. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed provide feel unwell as vomiting may be dangerous. Do not induce vomiting unless by medical personnel. If vomiting occurs, keep head low so that vomit does not enter the lungs. Chemical burns must be treated immediately by a physician. Never give anything by mouth to a person unconscious. If unconscious, place in position Get medical attention immediately. Secure good air circulation. Loosen could be tight clothing such as a collar, tie, belt or waistband.
Protection of first aid personnel	Any action involving any personal risk or not take not suitable training. If you suspect that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It would be dangerous to the person providing aid to give resuscitation word-of-mouth. Wash contaminated clothing with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : Can cause respiratory irritation.
Skin contact : Causes skin irritation.
Ingestion : Harmful if swallowed. It can cause burns to the mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
cough

Skin contact : Adverse symptoms may include the following:
Pain or irritation
redness
can cause blistering

Ingestion : Adverse symptoms may include the following:
stomach pain

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an

appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Use appropriate protectorpersonal equipment (see Section 8). Do not with eyes, skin or clothing. Avoid breathing vapor or fogs. Do not eat. Avoid release to the environment. Use only

when ventilation is inadequate. Keep in the the original container or approved alternative one made of a compliant material, kept tightly closed when not in use. Empty containers retain product residue and can be dangerous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available
Industrial sector specific solutions : Not available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNEL / DMEL Summary: Not available

PNEC Summary: Not available

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation.
If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the

		end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Clear. Straw.
Odor	:	sweet
Odor threshold	:	Not available
pH	:	Not applicable.
Melting point/freezing point	:	Not determined
Initial boiling point and boiling range	:	100 °C
Flash point	:	Not available

Evaporation rate	:	Not available
Upper/lower flammability or explosive limits	:	**Lower:** Not available **Upper:** Not available
Vapor pressure	:	Not available
Vapor density	:	Not available
Relative density	:	Not available
Density	:	1,060 kg/m3
Solubility(ies)	:	Not available
Solubility in water	:	Miscible
Partition coefficient: n-octanol/water	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	**Dynamic:** 18.000 mPa·s @ 25 °C **Kinematic:** Not available
Explosive properties	:	Not available
Oxidizing properties	:	Not available

9.2 Other information
No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Stable under normal conditions.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Hazardous reactions or instability may occur under certain conditions of storage or use.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Route	Value ETA (estimated acute toxicity by GI • IS)
Oral	909.1 mg / kg

Conclusion/Summary : Not available

Irritation/Corrosion

Conclusion/Summary
Skin : Not available
eyes : Not available
Respiratory : Not available

Sensitization

Conclusion/Summary
Skin : Not available
Respiratory : Not available

Mutagenicity

Conclusion/Summary : Not available

Carcinogenicity

Conclusion/Summary : Not available

Reproductive toxicity

Conclusion/Summary : Not available

Teratogenicity

Conclusion/Summary : Not available

Specific target organ toxicity (single exposure)
Not available

Product name or ingredient	**Category**	**Route of Exposure**	**vital organs**
Polyamine / Polyglycol - epoxy Resin adduct	Category 3		Tract irritation respiratory

Specific target organ toxicity (repeated exposure)
Not available

Aspiration hazard
Not available

Information on the likely routes of exposure : Not available

Potential acute health effects

Eye contact	:	Causes serious eye damage.
Inhalation	:	Harmful if swallowed. It can cause burns to the mouth, throat and stomach.
Skin contact	:	Causes skin irritation.
Ingestion	:	Can cause respiratory irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation cough
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	Adverse symptoms may include the following: stomach pain

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	Not available
Potential delayed effects	:	Not available

Long term exposure

Potential immediate effects	:	Not available
Potential delayed effects	:	Not available

Potential chronic health effects

Conclusion/Summary	:	Not available
General	:	
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary	:	Not available

12.2 Persistence and degradability

Conclusion/Summary	:	Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available
Mobility	:	Not available

12.5 Results of PBT and vPvB assessment

PBT	:	P: Not available B: Not available T: Not available
vPvB	:	vP: Not available vB: Not available

12.6 Other adverse effects	:	No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	:	The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal	:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
ADR/ADN		It not classified as hazardous for transport.		
RID		It not classified as hazardous for transport.		
ADN		It not classified as hazardous for transport.		
ICAO/IATA		It not classified as hazardous for transport.		
IMO/IMDG		It not classified as hazardous for transport.		

14.5. Environmental hazards

Environmentally hazardous and/or Marine Pollutant : NO.

14.6 Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV - List of substances subject to authorization
Substances of very high concern

Carcinogen: Not listed
Mutagen: Not listed
Toxic to reproduction: Not listed
PBT: Not listed
vPvB: Not listed

Other EU regulations

REACH Status : The substance(s) in this product has (have) been Pre-Registered and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH).

Aerosol dispensers : Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 1)	:	Not Listed
EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 2)	:	Not Listed
EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 3)	:	Not listed

Seveso II Directive
This product is controlled under the Seveso II Directive.

National regulations

International regulations

International lists	:	Canada inventory Not determined. Japan Substance Inventory or exempted. Inventory of Chemical Substances in China (IECSC) All components They are listed or exempted. Korean Substance Inventory or exempted. Chemical inventory New Zealand (NZIoC) Not determined. Substance inventory (PICCS) All components are listed or exempted. United States inventory (TSCA 8b) Not determined. Inventory Taiwan (CSNN) All components are listed or exempt. Inventory of Chemical Substances in China (IECSC) Not determined. Substance Inventory (PICCS) Not determined.

Chemical Weapons Convention List Schedule I Chemicals	:	Not listed
	:	Not listed
Chemical Weapons Convention List Schedule II Chemicals	:	Not listed
	:	Not listed
Chemical Weapons Convention List Schedule III Chemicals	:	Not listed
	:	Not listed
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302 (oral)	Calculation method
Skin Com / Irritate 2, H315	Calculation method
Eye Dam. / Irrit. 1, H318	Calculation method
STOT SE 3, H335	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements :

H302 (oral)	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	It can irritate the tracks respiratory.
H412	Harmful to organisms water, with harmful effects durable.

Full text of classifications [CLP/GHS] :

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Skin Corr. / Irrit. 2, H315	Corrosivity or irritation SKIN - Category 2
Eye Dam. / Irrit. 1, H318	EYE INJURY SEVERE IRRITATION EYE - Category 1
STOT SE 3, H335	TOXICITY SPECIFIED BODIES (STOT) - EXHIBITION ONLY - Category 3
Aquatic Chronic 3, H412	WATER HAZARD LONG TERM - Category 3

Full text of abbreviated R phrases :

R22- Harmful if swallowed.
R41 Risk of serious eye damage.
R37 / 38- Irritating to respiratory system and skin.
R52 / 53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD] :

Xn - Harmful
Xi - Irritant

Date of issue/ Date of revision	**:**	30.10.2015
Date of previous issue	**:**	15.03.2014
Version	**:**	2.0

Notice to reader

The information provided herein was believed by Topcret to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Topcret are subject to Topcret's terms and conditions of sale.

This page left intentionally blank.