

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010

BLINDAJE CRED COMPONENT 2

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

1.1 Product identifier

Product name : Blindaje CRED Component 2

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

Label elements

According to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:
Warning

Hazard Statement:

H332	Harmful if inhaled.
H317	May cause an allergic skin reaction.
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.

Precautionary Statements (Prevention):

P280c	Wear protective gloves.
P271	Use only outdoors or in a well-ventilated area.
P280f	Wear protective gloves and eye/face protection.
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P260i	Do not breathe dust/gas/mist/vapours.
P260h	Do not breathe mist or vapour.
P243	Take precautionary measures against static discharge.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P233	Keep container tightly closed.
P242	Use only non-sparking tools.
P240	Ground/bond container and receiving equipment.

Precautionary Statements (Response):

P311	Call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P303 + P352	IF ON SKIN (on hair): Wash with plenty of soap and water.
P303 + P361 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
P362	Take off contaminated clothing and wash before reuse.
P370 + P378.12	In case of fire: Use foam or dry powder for extinction.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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Labeling of special preparations (GHS):

Contains isocyanates. See information supplied by the manufacturer.

According to Directive 67/548/EEC or 1999/45/EC

Directive 1999/45/EC ('Preparation Directive')

Hazard symbol(s)

Xn	Harmful.
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R-phrases(s)

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R10	Flammable.
R43	May cause sensitization by skin contact.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R20	Harmful by inhalation.
R37	Irritating to respiratory system.
S-phrase(s)	
S23.3	Do not breathe vapour/spray.
S24/25	Avoid contact with skin and eyes.
S37	Wear suitable gloves.

Contains isocyanates. Observe manufacturer's instructions.

Hazard determining component(s) for labelling: N-BUTYLACETATE, POLYFUNCTIONAL ISOCYANATE, Hexane, 1,6-diisocyanato-, homopolymer

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flammable liquids: Cat. 3
Acute toxicity: Cat. 4 (Inhalation - mist)
Skin sensitizer: Cat. 1
Specific target organ toxicity following single exposure: Cat. 3 (Vapours may cause drowsiness and dizziness.)
Specific target organ toxicity following single exposure: Cat. 3 (irritating to respiratory system)

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:
Flammable.
May cause sensitization by skin contact.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.
Harmful by inhalation.
Irritating to respiratory system.

Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Other Hazards (GHS):
No specific dangers known, if the regulations/notes for storage and handling are considered.

Assessment PBT / vPvB:

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria..

SECTION 3 Composition/Information on Ingredients

Mixtures

Chemical nature

polyfunctional polyisocyanate

Derivative based on: 1,6-hexamethylene diisocyanate, 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

n-Butyl acetate

Content (W/W): $\geq 15\%$ - $\leq 20\%$	Flam. Liq.: Cat. 3
CAS Number: 123-86-4	STOT single: Cat. 3 (drowsiness and dizziness)
EC-Number: 204-658-1	H226, H336
REACH registration number: 01-2119485493-29	
INDEX-Number: 607-025-00-1	

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Content (W/W): $\leq 0.35\%$	Acute tox.: Cat. 1 (Inhalation - mist)
CAS Number: 4098-71-9	Skin corr./irr.: Cat. 2
EC-Number: 223-861-6	Eye dam./irr.: Cat. 2
REACH registration number: 01-2119490408-31	Resp. sens.: Cat. 1
INDEX-Number: 615-008-00-5	Skin sens.: Cat. 1
	STOT single: Cat. 3 (irr. to respiratory syst.)
	Eco chronic: Cat. 2
	H319, H315, H330, H334, H317, H411, H335

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

Content (W/W): $\geq 37\%$ - $\leq 47\%$	Skin sens.: Cat. 1
CAS Number: 53880-05-0	H317
EC-Number: 500-125-5	

Hexane, 1,6-diisocyanato-, homopolymer

Content (W/W): $\geq 25\%$ - $\leq 30\%$	Acute tox.: Cat. 4 (Inhalation - vapour)
CAS Number: 28182-81-2	Skin sens.: Cat. 1
EC-Number: 500-060-2	STOT single: Cat. 3 (irr. to respiratory syst.)
REACH registration number: 01-2119485796-17	H332, H317, H335

Hazardous ingredients

according to Directive 1999/45/EC

n-Butyl acetate

Content (W/W): $\geq 15\%$ - $\leq 20\%$
CAS Number: 123-86-4
EC-Number: 204-658-1
REACH registration number: 01-2119485493-29
INDEX-Number: 607-025-00-1
R-phrases: 10, 66, 67

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Content (W/W): $\leq 0.35\%$
CAS Number: 4098-71-9
EC-Number: 223-861-6
REACH registration number: 01-2119490408-31
INDEX-Number: 615-008-00-5
Hazard symbol(s): T, N
R-phrases: 23, 36/37/38, 42/43, 51/53

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

Content (W/W): $\geq 37\%$ - $\leq 47\%$
CAS Number: 53880-05-0
EC-Number: 500-125-5
Hazard symbol(s): Xi
R-phrases: 43

Hexane, 1,6-diisocyanato-, homopolymer

Content (W/W): $\geq 25\%$ - $\leq 30\%$
CAS Number: 28182-81-2
EC-Number: 500-060-2
REACH registration number: 01-2119485796-17
Hazard symbol(s): Xn
R-phrases: 20, 37, 43

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

SECTION 4 First-Aid Measures

Description of first aid measures

Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5 Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Special hazards arising from the substance or mixture

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:
Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7 Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. If delivered in plastic packing, highest permissible emptying temperature is 5 Kelvin below the flash point.

Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and in a cool place.

Protect from temperatures above: 50 °C

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8 Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

53880-05-0: 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers

28182-81-2: Hexane, 1,6-diisocyanato-, homopolymer

123-86-4: n-Butyl acetate

4098-71-9: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN 374)

Suitable materials short-term contact and/or splashes (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN 374)

butyl rubber (butyl) - 0.7 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

SECTION 9 Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	liquid	
Colour:	colourless to yellowish	
Odour:	faint specific odour	
Odour threshold:	not determined	
pH value:	not applicable	
Freezing point:	-70 °C	
Boiling point:	not determined	
Flash point:	39 °C	(DIN EN ISO 13736)
Evaporation rate:	not determined	
Flammability:	Flammable.	
Lower explosion limit:	1.4 %(V)	(DIN 51649-1)
Upper explosion limit:	9.6 %(V)	(DIN 51649-1)
Ignition temperature:	425 °C	(DIN EN 14522)
Vapour pressure:	22.2 hPa (20 °C) 61.6 hPa (50 °C)	
Density:	1.09 g/cm ³ (approx. 20 °C) 1.06 g/cm ³ (approx. 50 °C)	
Relative density:	1.09 (20 °C)	
Relative vapour density (air):	not determined	
Solubility in water:	Reacts with water.	
Solubility (qualitative) solvent(s):	polar solvents	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Self ignition:	not self-igniting	
Thermal decomposition:	not determined	
Viscosity, dynamic:	500 - 1,000 mPa.s (23 °C)	(DIN EN ISO 3219)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Miscibility with water:	Reacts with water.
Hygroscopy:	hygroscopic
Surface tension:	Based on chemical structure, surface activity is not to be expected.
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.

SECTION 10 Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Reacts with alcohols. Reacts with amines. Reacts with substances which contain active hydrogen.
Reacts with water, with formation of carbon dioxide. The formation of gaseous decomposition products builds up pressure in tightly closed containers.

Conditions to avoid

Avoid moisture.

Incompatible materials

Substances to avoid:
water, alcohols, amines

Hazardous decomposition products

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11 Toxicological Information

Information on toxicological effects

Acute toxicity

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 rat (by inhalation): 1 - 5 mg/l 4 h

The product has not been tested. The statement has been derived from the properties of the individual components.

LD50 rat (dermal): > 5,000 mg/kg

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Experimental/calculated data:

Guinea pig maximization test guinea pig: skin sensitizing
sensitizing effect in animal tests The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity:

No data available concerning carcinogenic effects.

Reproductive toxicity

Assessment of reproduction toxicity:

No data available concerning reproduction toxicity.

Developmental toxicity

Assessment of teratogenicity:

No data available concerning teratogenic effects.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No data available concerning repeated dose toxicity.

Aspiration hazard

No aspiration hazard expected.

SECTION 12 Ecological Information

Toxicity

Assessment of aquatic toxicity:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Fish

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

LC50 (48 h) > 100 mg/l, daphnia

The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic plants:

EC50 (72 h) > 100 mg/l, algae

The product has not been tested. The statement has been derived from the properties of the individual components.

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 1,000 mg/l, bacteria

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Chronic toxicity to fish:

No effects at the highest test concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity to aquatic invertebrates:

No effects at the highest test concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment of terrestrial toxicity:

Study scientifically not justified.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.

Elimination information:

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential:
The product has not been tested.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:
The substance will not evaporate into the atmosphere from the water surface.
No data available.

Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria..

Information on: n-Butyl acetate

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.. Self classification

Information on: n-Butyl acetate

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria.. Self classification

Information on: 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.. Self classification

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling vPvB (very persistent/very bioaccumulative) criteria.. Self classification

Information on: Hexane, 1,6-diisocyanato-, homopolymer

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria..

Additional information

Add. remarks environm. fate & pathway:
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:
Do not release untreated into natural waters. The local regulations on waste-water treatment must be followed.

SECTION 13 Disposal Considerations

Waste treatment methods

| Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14 Transport Information

Land transport

ADR

Hazard class:	3
Packing group:	III
ID number:	UN 1866
Hazard label:	3
Proper shipping name:	RESIN SOLUTION (contains N-BUTYLACETATE)

RID

Hazard class:	3
Packing group:	III
ID number:	UN 1866
Hazard label:	3
Proper shipping name:	RESIN SOLUTION (contains N-BUTYLACETATE)

Inland waterway transport

ADN

Hazard class:	3
Packing group:	III
ID number:	UN 1866
Hazard label:	3
Proper shipping name:	RESIN SOLUTION (contains N-BUTYLACETATE)

Sea transport

IMDG

Hazard class:	3
Packing group:	III
ID number:	UN 1866
Hazard label:	3
Marine pollutant:	NO

Proper shipping name: RESIN SOLUTION (contains N-BUTYLACETATE)

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 1866
Hazard label: 3
Proper shipping name: RESIN SOLUTION (contains N-BUTYLACETATE)

SECTION 15 Regulatory Information

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Chemical Safety Assessment

Chemical Safety Assessment not yet performed due to registration timelines

SECTION 16 Other Information

The product is used mainly as a hardener in coating materials or adhesives. The handling of coating materials or adhesives containing reactive polyisocyanates and residual monomeric HDI requires appropriate protective measures referred to in this safety data sheet. These products may therefore be used only in industrial or trade applications. They are not suitable for use in homemaker (DIY) applications.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

T	Toxic.
N	Dangerous for the environment.
Xi	Irritant.
Xn	Harmful.
10	Flammable.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
23	Toxic by inhalation.
36/37/38	Irritating to eyes, respiratory system and skin.
42/43	May cause sensitization by inhalation and skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	May cause sensitization by skin contact.
	Harmful by inhalation.
	Irritating to respiratory system.
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H330	Fatal if inhaled.

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H335	May cause respiratory irritation.
H332	Harmful if inhaled.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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