

CONCRETE MOULD EMULSION CHEMICAL RELEASE AGENT (BCA Category 4/5)

DESCRIPTION

ECODIN WB is a water borne chemical release agent based on modern rapeseed ester emulsion technology. Supplied ready for use and best applied by spraying techniques. It is completely free from hydrocarbon solvents and is therefore VOC free. This makes it ideal for use in pre-cast factories or confined areas where the solvent vapours of traditional release agents would be a hazard to the work force.

ECODIN WB has been designed to give easy release of formwork and produce high quality surface finishes with all types of concrete in both pre-cast and in-situ concrete.

APPLICATION

ECODIN WB product should be applied as thinly and evenly as possible, and then be allowed to 'dry' before casting. Once water carrier has evaporated, the active film left behind will be resistant to water wash off.

It can be applied to all types of formwork by spray, or absorbent applicator. Any excess should be mopped up. For the best and most economical performance, application by mist spray is recommended. Excellent results can be obtained using a Gloria 410T sprayer with an 8001 tip fitted.

Many new forms are not factory treated with oils, so for new or 'unsealed' timber formwork, pre-treatment is essential with two coats prior to use. This will extend the useful life of the form and help to standardise surface absorbency.

PROPERTIES

Appearance:	White, emulsion type liquid
Specific Gravity:	0.99 @ 20°C
Flash Point:	Not flammable
Viscosity:	Low
Freezing Point:	0°C
Storage Life:	12 months in sealed drums

QUALITY ASSURANCE

Products are manufactured under quality assured schemes.

Inform UK Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Inform UK Ltd Terms and Conditions of Sale, copies of which are available on request. Inform UK Ltd endeavours to ensure that the above data and any further advice is correct, however Inform UK Ltd can not accept liability for the use to which products are put or in the way in which they are used. All recommendations stated by the company are made in good faith. Recommendations so no over-ride the basic obligation of the user to satisfy themselves at all times as to suitability of the product for their particular application.

ADVANTAGES

- Suitable for use on all types of formwork
- Water borne, VOC free
- A low viscosity liquid which is easily sprayed through fine sprays without clogging
- Economic coverage rates can be obtained using spray equipment
- Treated forms should not be treated until dry. Treated forms can be exposed to the environment for a number of days without re-treatment
- Once dry, soffit shutters can be walked on safely
- Provides a quick, positive release of formwork, reducing labour costs and damage to formwork moulds
- Greatly reduces the occurrence of blowholes, surface blemishes and staining

LIMITATIONS

Due to its waterborne nature ECODIN WB should not be applied if it is raining or if it is about to rain as the product will be washed off. It needs time to dry.

COVERAGE

25 to 60m²/litre dependant on type of form, porosity, texture of surface and ambient temperature.

STORAGE & HANDLING

Protect from frost. Containers must be kept sealed after use. The product may require some agitation before use if stored for more than 2 months.

PACKAGING & TRANSPORT

Supplied in 25ltr, 200ltr plastic drums. 1000ltr IBCs may also be available. Not regulated for road transport

HEALTH & SAFETY

Refer to separate material safety data sheet. Copies available on request.



MATERIAL SAFETY DATA SHEET

1.0 IDENTIFICATION OF SUBSTANCE/PREPARATION & SUPPLIER

Product Name: ECODIN WB (T1543)
Product Type: Concrete Mould Emulsion

Supplier: Inform UK Ltd, The Industrial Park, Ely Road, Waterbeach, Cambridge, CB25 9PG
Emergency Contact: 01223 862230 – office hours only

2.0 HAZARDS IDENTIFICATION

Hazard Designation: Not classified as hazardous under CHIP regulations

Information pertaining to particular dangers to main and the environment: Not applicable

Classification System: The health and environmental hazards of this preparation have been assessed by the conventional method described in annex II and III of the preparation directive 1999/45 EC.

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Dangerous Components:

Hazardous Component	EEC	Cas No.	Index	Risk Phrases	Concentration
Rapeseed Oil Diethanolamide	269-125-8	68187-80-4	Xi	R36/38	1-5%

Additional Information: For the wording of the listed risk phrases refer to section 16

4.0 FIRST AID MEASURES

Eye Contact: Flush with plenty of clean water for at least 15 minutes. If irritation persists obtain medical attention
Skin Contact: Wash off with water. The application of skin reconditioning (emollient) cream can be beneficial
Inhalation: Remove to fresh air. Keep warm, seek medical advice
Ingestion: Milk or water to drink may be beneficial. Do not induce vomiting without medical advice

5.0 FIRE FIGHTING MEASURES

Extinguishing Media: Foam, dry powder, Co2, Halon, fine water spray suitable
Unsuitable Media: Do not use water jets. Do not spray water directly into storage containers due to boil over danger.
Special Hazards caused by the material, its products of combustion or flue gasses: Not classed as flammable. The dried residue is inherently combustible. Combustion can produce a variety of compounds including oxides of carbon, water vapour and unidentified organic and inorganic compounds, some of which may be toxic.

Protective Equipment: Standard protective equipment. Fire fighters should enter area wearing breathing apparatus.

6.0 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves.
Environmental Protection: Inform authorities in case of contamination of water or sewage system. Do not allow product to soak into drains or water courses.
Method for Cleaning/Collecting: Soak liquid in absorbent material and collect solids in a container. Wash down floor area as spillages can be slippery. Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

7.0 HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Observe good standards of industrial hygiene
Safe Handling: Keep in tightly closed containers. Take note of emission threshold

Storage Requirements to be met by Storerooms and Containers: Store between 0-35°C. Protect from frost.
Storage in a Common Storage Facility: Do not store in extremes of temperature or near foodstuffs.

Specific Uses: To be used as a lubricant/release agent

8.0 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limit Values:

Occupational Exposure Controls

Respiratory Protection:	Unlikely to be necessary unless operation generate vapour, mist or fumes where the exposure cannot be controlled by local ventilation measures
Eyes:	Chemical eye goggles should be worn
Hands:	PVC or rubber gloves are recommended
Skin:	Use protective clothing. Remove contaminated clothing and wash with soap and water

Environmental Exposure Controls: Dispose of in accordance with Local Authority regulations, via authorised waste disposal agent

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Emulsion
Odour:	Bland
PH @ 5% in Tap Water:	9.50 typical
Boiling Point:	100°C
Flash Point:	>100°C
Flammability:	Non-flammable
Vapour Pressure:	Water =18mm Hg
Water Solubility:	Forms emulsion
Specific Gravity @ 20°C:	0.990 typical
Freezing Point:	0°C

10.0 STABILITY AND REACTIVITY

Conditions to Avoid:	Naked flames, hot surfaces, other high temperature sources
Materials to Avoid:	Strong oxidising agents, strong acids. May soften some rubbers and other elastomeric sealing agents
Hazardous Decomposition:	Product is stable under normal conditions

11.0 TOXICOLOGICAL INFORMATION

Eyes:	Contact may cause moderate irritation and stinging and transient irritation
Skin:	Brief or occasional contact is unlikely to cause any significant reaction. Prolonged or repeated contact with the undiluted product may lead to de-fatting of the skin, slight irritation or dermatitis
Inhalation:	Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract
Ingestion:	Low order of acute toxicity. Ingestion of this product is not regarded as a significant health hazard likely to arise in normal use. Swallowing of significant quantities may cause discomfort, nausea and irritation of digestive tract

12.0 ECOLOGICAL INFORMATION

Eco-Toxicity:	There is no data available on the product itself
Mobility:	The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Avoid transfer into the environment.
Persistence & Degradability:	The individual components of the product range from readily to poorly biodegradable. The components are not expected to be highly toxic to aquatic life. If released in to water, the product may deplete the oxygen supply to bottom dwelling organisms.
Bio-accumulative Potential:	Small quantities will be absorbed into the upper soil layer where bio-degradation takes place. Large quantities may penetrate into anaerobic soil layers in which some organic components, e.g. mineral oil, may persist. Mineral oil can have a potential to bio-accumulate.

13.0 DISPOSAL RECOMMENDATIONS

Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations.

Wash out containers with water, running the washings to sewage treatment plant system. Dispose of empty containers in accordance with local and national regulations.

Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product

14.0 TRANSPORT INFORMATION

Product is not classified as hazardous for transport

15.0 REGULATORY INFORMATION

Designation According to EC Guidelines: The product has been classified and labelled in accordance with EC Directives/Ordinance on Hazardous Materials (CHIP).

Risk Phrases: None

Safety Phrases: S2: Keep out of reach of children
S24/25: Avoid contact with eyes and skin

National Regulations:

Regulations which May Apply in Event of Accident:

Control of Major Accident Hazards (COMAH) critical quantity values according to the regulations on accidents should be adhered to

16.0 OTHER INFORMATION

Do not mix with other chemicals. Do not add other materials to the product or dilute emulsions unless recommended. Emulsions should be maintained at the recommended concentration in order to minimise health hazards. In particular, water can evaporate leading to an increase in concentration which may in turn lead to an increased likelihood of skin de-fatting and irritation. The information provided in this data sheet had been compiled in accordance with the requirements of the Chemical (Hazard information and packaging) Regulations 2002 (CHIP 3).

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the control of Substances Hazardous to Health (COSHH).

R – Phrases relevant to the products hazardous ingredients:

R36/38: Irritating to eyes and skin

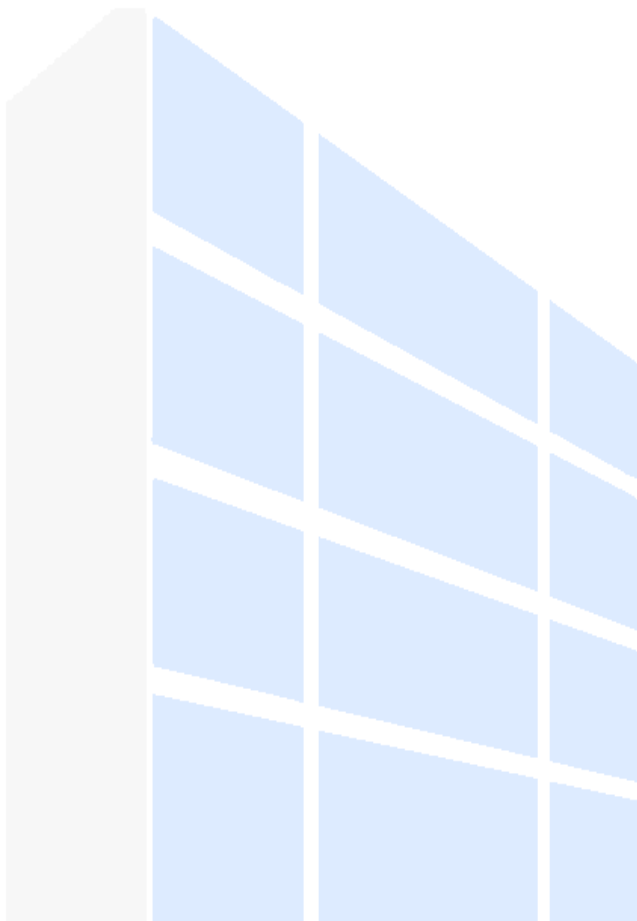
Recommended Restrictions on Use:

Department issuing data specification sheet: Health and Safety Department

Contact: Mike Stierer. Tel: 01223862230 Email: mike.stierer@informuk.co.uk

Legal Disclaimer:

The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy himself that the product is entirely suitable for his purpose.



Inform UK Ltd
The Industrial Park
Ely Road, Waterbeach
Cambridge, CB25 9PG
Tel: 01223 862230
Web: www.informuk.co.uk
Email: general@informuk.co.uk