

# MATERIAL SAFETY DATA SHEET

Manufactured By IDEALS Ltd, Timaru, New Zealand  
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In case of emergency endangering health or the environment involving this product, call +64 275 239888

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**I. CHEMICAL PRODUCT/COMPANY IDENTIFICATION**

PRODUCT NAME: ECO Seal 100 Part B  
PRODUCT CODE: 72229

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**II. COMPOSITION: INFORMATION ON INGREDIENTS**

CHEMICAL NAME: \* Proprietary blend of Aliphatic Iso Cyanates  
Intended Use Hardener system for a 2 pack polymeric elsaatomericphotoluminescent waterproofing system.

\* All percentages are approximate.

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**III. HAZARDS IDENTIFICATION**

**HUMAN HEALTH DATA**

ROUTE(S) OF ENTRY: Skin contact; H317  
  
Eye contact H 319  
  
Inhalation H 332

**HUMAN EFFECTS AND**

**SYMPTOMS OF OVEREXPOSURE:** (This data is based on active ingredient)

**ACUTE SKIN CONTACT:** On the basis of animal toxicity testing (see Section XI), we expect this product to be potentially irritating to the skin.

**ACUTE EYE CONTACT:** On the basis of animal toxicity testing (see Section XI), we expect this product to be irritating to the eyes.

**ACUTE INGESTION:** Ingestion may cause a laxative effect On the basis of animal toxicity testing (see Section XI), we expect this product to be essentially non-toxic by ingestion.

**CHRONIC EFFECTS** May cause skin and respiratory sensitization through prolonged exposure.  
**OF EXPOSURE:** Ensure good PPE and ventilation.

**CARCINOGENICITY:** None of the components listed by NTP, IARC, or regulated as a carcinogen by OSHA.

**MEDICAL CONDITIONS:**

**AGGRAVATED EXPOSURE:** None known.

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#### IV. FIRST AID MEASURES

FIRST AID FOR EYES: Immediately flush eyes with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention.

FIRST AID FOR SKIN: In case of contact, remove product mechanically and wash skin with soap or mild detergent and water. Remove contaminated clothing. Call a physician if irritation occurs. Wash clothing before reuse.

FIRST AID FOR INGESTION: If swallowed, call a physician immediately.

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#### V. FIRE AND EXPLOSION DATA

FIRE & EXPLOSION HAZARDS: Minimal

EXTINGUISHING MEDIA: Water Spray. Foam. Dry Chemical. CO<sub>2</sub>. Halon

SPECIAL FIRE FIGHTING PROCEDURES: Likely to produce TOXIC fumes in a fire. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray. Cool tank/container with water spray.

If area is heavily exposed to fire and if conditions permit, let fire burn itself out, since water may increase the area contaminated.

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#### VI. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Utilize protective clothing and equipment (see Section VII). Spills should be taken up mechanically and placed into labelled, closable containers. Avoid generation of dust. Spill area should not be washed with water. Collect wash water for approved disposal. Cover with dry lime, sand, vermiculite or soda ash.

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#### VII. HANDLING AND STORAGE

STORAGE TEMPERATURE: Less than 140 F (60 C), and above freezing.

SHELF LIFE: Five (5) years - Estimated.

SPECIAL SENSITIVITY: Will slowly react with moisture, alcohols, ketones and aldehydes. This may pressurize storage containers.

HANDLING/STORAGE

PRECAUTIONS: Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from excessive heat. Reseal containers immediately after

use. Store away from food and beverages. Do not contaminate drinking beverages. Do not contaminate drinking water sources.

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**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION**

EYE PROTECTION: Safety glasses or goggles are recommended.  
 SKIN PROTECTION: Rubber gloves and other protective clothing as appropriate to prevent skin contact.  
 RESPIRATOR: None. Use in well ventilated areas if sprayed or atomized.  
 ADDITIONAL PROTECTIVE MEASURES: Emergency showers and eye wash stations should be available. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees on the safe use and handling of the product.

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**IX. PHYSICAL DATA**

SOLUBILITY IN WATER: Immiscible in all proportions.  
 ODOR: None  
 FORM: Liquid  
 COLOR: Multiple  
 pH: N/A  
 Boiling Point: 190 °C  
 Vapour pressure: N/A  
 Density: <1.01 g/cm<sup>3</sup>  
 Auto ignition Temp: 455 °C

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**X. STABILITY AND REACTIVITY**

STABILITY: This is a stable material.  
 HAZARDOUS POLYMERIZATION: Will not occur.  
 INCOMPATIBILITIES: Amines, Strong Bases, Alcohols, Aldehydes and Ketones, Heavy metals.  
 INSTABILITY CONDITIONS: Stable at normal temperatures and storage conditions.  
 DECOMPOSITION TEMPERATURE: Greater than 518 F (270 C).  
 DECOMPOSITION PRODUCTS: Thermal decomposition may product potentially toxic and/or hazardous gases.

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**XI. TOXICOLOGICAL INFORMATION**

**ANIMAL DATA** - Active Ingredient shows low toxicity by all routes of exposure.

**ACUTE TOXICITY**

ORAL: Rat LD<sub>50</sub> - >2,000 mg/kg; FIFRA Category IV  
 DERMAL: Rat LD<sub>50</sub> - >3,000 mg/kg; FIFRA Category II  
 INHALATION: Rat LC<sub>50</sub> - >300 mg/l; FIFRA Category IV  
 EYE IRRITATION: Rabbit; mild irritation; all animals free of irritation in 72 hours; FIFRA Category II  
 SKIN IRRITATION: Rabbit; slight irritation; all animals free of irritation in 24 hours; FIFRA Category II

Skin allergy was observed in guinea pigs following repeated skin exposure. May cause sensitization after exposure. May cause sensitization after repeat exposures.

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**XII. ECOLOGICAL INFORMATION**

AQUATIC TOXICITY LC50: 25 mg/L (brachydanio rerio) Moderate toxicity and high  
biodegradation profile. Rapidly reacts with water to form stable  
and insoluble polyureas.

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**XIII. DISPOSAL CONSIDERATIONS**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local Regulations.

CONTAINER DISPOSAL: Reseal the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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**XIV. TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: None  
D.O.T. HAZARD CLASS: Non-regulated  
PRODUCT RQ (lbs.): None  
D.O.T LABEL: Non-regulated  
D.O.T. PLACARD: Non-regulated  
PRODUCT LABEL: ECO Seal 100 Clear Part B

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**XV. REGULATORY INFORMATION**

OSHA STATUS: This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: On TSCA Inventory

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:  
SECTION 302 EXTREMELY  
HAZARDOUS SUBSTANCES: None

SECTION 311/312

HAZARDOUS CATEGORIES: Non-hazardous under Section 311/312  
311/312

SECTION 313

TOXIC CHEMICALS: None

RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

R-Phrases 23-36/37/38-42/43  
S- Phrases 26, 28, 38,45

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**XVI. OTHER INFORMATION**

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on regulatory requirements you should contact the appropriate agency in your state.

PENNSYLVANIA: The active ingredient is considered Pennsylvania Non-hazardous, PA3

CALIFORNIA PROPOSITION 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

NFPA 704M RATINGS: Health 2 Flammability 1 Reactivity 0  
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

HMIS RATINGS: Health 2 Flammability 1 Reactivity 1 Other B  
0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe B = Safety Glasses, gloves

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**XVII. APPROVALS**

PREPARED BY: Dr N Wall  
APPROVAL DATE: 24/05/2018  
SUPERSEDES DATE: 1<sup>st</sup> Edition  
MSDS NUMBER 72229

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