

SAFETY DATA SHEET

Lockwell UHB Part A

Section 1.0 – Identification Of Material And Supplier

Product Name : Lockwell UHB (Urea Hydro Block) Part A
Proper Shipping Name : Polymeric Alcohol, Polyol, Urethane Resin
Recommended use : Polyurethane System for Strata Consolidation
Suppliers Name : Lockwell Systems Co.,Ltd. 199/5 Moo.21 Soi Chongsiri Parkland
T.Bangphleeyai A.Bangplee Samutprakarn 10540
Country of Origin : New Zealand
Phone Number : +662 181 9738
Date of Preparation : 1 July, 2016

Section 2.0 – Hazards Identification

Statement of Hazardous Nature: Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Classification: 6.4A
HSNO Approval Code: HSR002644

Hazard and Precautionary Statements:

Hazard: Causes serious eye irritation
Prevention: Read Safety Data Sheet before use.
Wash hands thoroughly after handling.
Wear eye/face protection.

Response:

If in eyes – Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.

In Case of Fire: Dry chemical extinguishers such as monoammonium phosphate, potassium chloride, additionally carbon dioxide, high expansion chemical foam, water spray.

Storage: Store in a cool dry place.
Disposal: Recycle wherever possible.
Bury residue in an authorized landfill.
Recycle containers if possible. If not possible, dispose of in an authorized landfill.
Containers may still present a chemical hazard/danger when empty.
If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent reuse, and bury at an authorized landfill.
Contact appropriate Waste Management Company for guidance and disposal options in your area.
When possible retain label warnings and MSDS and observe all notices pertaining to the product.



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Section 3.0 – Composition / Information on Ingredients

Ingredients:	Cas No:	Percentage %:
Hydroxyl Terminated Poly (Oxyalkylene) Polyether	-	90-95
Tertiary Amine bearing compounds	-	< 3

Section 4.0 – First Aid Measures

EMERGENCY & FIRST AID PROCEDURES

Eye Contact:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
Skin Contact:	After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.
Inhalation:	If difficulties occur after vapor/aerosol has been inhaled, remove to fresh air and seek medical attention.
Ingestion:	Rinse mouth immediately and then drink plenty of water. Seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.
Note to physician:	Treat symptomatically.

Section 5.0 – Fire Fighting Measures

Extinguishing Media:	Foam, water spray, dry powder, carbon dioxide. Do not use water jet.
Special Fire Fighting Procedures:	Wear a self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	Carbon monoxide, carbon dioxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black

Section 6.0 – Accidental Release Measure

SPILLS AND DISPOSAL

Steps to be taken in case material is released or spilled:	Use personal protective clothing. Do not breathe vapor/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice. Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.
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Waste Disposal Method:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc. Dispose of contaminated material as prescribed.
For large amounts: Pump off product.

Section 7.0 – Handling and Storage

SPECIAL PRECAUTIONS AND STORAGE DATA

Special Sensitivity (Heat, Light, Moisture):

This product is hygroscopic. Containers should be tightly sealed to prevent moisture contamination. Do not expose to high temperatures for any length of time.

STORAGE AND TRANSPORT

Storage Temperature (Min/Max):

18°C – 30°C.

Average Shelf Life:

6 months

Section 8.0 – Exposure Controls / Personal Protection

EXPOSURE STANDARDS

Threshold Limit Value – Short Term Exposure Limit (TLV-STEL):

Not established

Threshold Limit Value – Ceiling (TLV-C):

Not established

ENGINEERING CONTROLS

Ventilation:

Natural or mechanical. Local exhaust will keep TLV below minimum in most cases. Spills or other emergencies may require more forceful ventilation means.

PERSONAL PROTECTION

Skin and eye protection:

Chemical resistant gloves such as natural rubber, or poly vinyl alcohol. Cover as much of the exposed skin as possible with appropriate clothing. If skin creams are used, keep the area covered by the cream to a minimum.

Liquid chemical goggles or full-face shield. No contact lenses should be worn.

Respiratory Protection:

This product has demonstrated no observable effects at room temperatures; however, it is highly recommended that an air purifying respirator with organic filter cartridges be worn. In addition, in any spray application, a supplied air source must be provided.

Other:

Safety showers and eye wash stations should be provided in all work areas. All employees should be properly trained.

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FLAMMABILITY

Flammability Limits: Not applicable

Section 9.0 – Physical and Chemical Properties

Appearance & Odor:	Viscous amber liquid, slight ammonia odour
Boiling Point:	32°C with evolution of HCFC then decomposes
Vapor Pressure:	Not available
Specific Gravity:	1.10
Flash Point:	120°C
% Volatile by Volume:	15-25
Flammability Limits:	Not applicable
Solubility in Water:	Slightly soluble

Section 10.0 – Stability and Reactivity

REACTIVITY DATA

Stability:	Stable if stored and handled as prescribed.
Polymerisation:	Will not occur.
Incompatibility (Materials to avoid):	Avoid contact with isocyanates and other substances that will react with Hydroxyl groups.
Hazardous decomposition products:	Aliphatic fragments, CO, NH ₃ , CO ₂ ..

Section 11.0 – Toxicology Information

HEALTH EFFECTS

ACUTE:

Skin and Eyes:

This product contains amine catalyst and will cause irritation to the skin after prolonged contact. Some individuals may be more sensitive to exposure. This product contains Freon which can cause dermatitis. This product may cause eye irritation. Protective goggles should be worn.

Ingestion:

This is not considered a common occupational route of exposure, and no observable effects have been demonstrated.

Inhaled:

At room temperatures, vapor inhalation is not considered hazardous. This product contains Freon, at elevated temperatures, Freon gas may escape. Vapors may cause dizziness, tremors, cardiac arrhythmias and cardiac arrest.

CHRONIC

Human Effects of Over Exposure:

At room temperatures, vapor inhalation is not considered hazardous. This product contains Freon, at elevated temperatures, Freon gas may escape. Vapors may cause dizziness, tremors, cardiac arrhythmias and cardiac arrest.



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Section 12.0 – Ecological Information

No data available.

Section 13.0 – Disposal Considerations

DISPOSAL STATEMENT

Recycle wherever possible.

Bury residue in an authorized landfill.

Recycle containers if possible. If not possible, dispose of in an authorized landfill.

Containers may still present a chemical hazard/danger when empty.

If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, and then puncture containers, to prevent re-use, and bury at an authorized landfill.

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Section 14.0 – Transportation Information

U.N. No:	Not applicable.
Haz Chem Code:	Not applicable
Dangerous Goods Class:	Not applicable
Proper Shipping Name:	Not applicable
Packaging Group:	Not applicable
Toxic Substances Schedule:	Not applicable

Section 15.0 – Regulatory Information

HSNO Approval number:	HSR002644
HSNO Classification:	6.4A

Section 16.0 – Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This document was reviewed and revised on 13 February 2017.

Version #: 2.0

Prepared by: Lockwell Systems LLC