

# MATERIAL SAFETY DATA SHEET

## HYPERFLEX



### 1. IDENTIFICATION

**Product Name :** HYPERFLEX

**Other Names :** Not applicable

**Recommended Use :** A one pack, moisture cured , polyurethane, waterproofing membrane, applied by brush, roller or squeegee. Do not apply using spray equipment.

**Supplier :** Newkem Australia Pty. Ltd  
**ABN :** 43 000 549 548  
**Street Address :** 1 Cumberland Avenue, South Nowra NSW 2541  
**Telephone :** (02) 4423 0044  
**Fax:** (02) 4421 4392  
**Email** sales@newkem.com.au  
**Emergency Phone:** Mon-Fri 8:30am – 5:00pm 02 4423 0044  
After Hours 0411 430 484

### 2. HAZARDS IDENTIFICATION

**Health Hazard Classification:** HAZARDOUS SUBSTANCE

**Hazchem Code:** •3Y

**Dangerous Goods Classification:** DANGEROUS GOODS –  
PETROLEUM PRODUCTS, N.O.S.

**Class:** 3

**UN Number:** 1268

**Packaging Group:** III

**Poisons Schedule :** S5

Hazardous classification according to the criteria of SWA  
Dangerous goods classification according to the Australian Dangerous Goods Code

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### Risk Phases :

<b>R10</b>	Flammable
<b>R20</b>	Harmful by inhalation
<b>R34</b>	Causes burns
<b>R45</b>	May cause cancer
<b>R65</b>	Harmful: May cause lung damage if swallowed
<b>R66</b>	Repeated exposure may cause skin dryness
<b>R67</b>	Vapours may cause dizziness
<b>R42/43</b>	May cause sensitisation by inhalation and skin contact
<b>R20/21/22</b>	Harmful by inhalation, contact with skin and if swallowed
<b>R36/37/38</b>	Irritating to eyes, skin and respiratory system

### Safety Phases :

<b>S2</b>	Keep out of reach of children
<b>S23</b>	Do not breathe vapour
<b>S24</b>	Avoid contact with skin
<b>S25</b>	Avoid contact with eyes
<b>S26</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
<b>S28</b>	After contact with skin wash immediately with plenty of soapsuds
<b>S38</b>	In case of insufficient ventilation, wear respiratory equipment
<b>S45</b>	In case of accident or you feel unwell, seek medical advice immediately (show the label whenever possible)
<b>S62</b>	If swallowed, do not induce vomiting; seek medical advice immediately and show container or label.
<b>S36/37/39</b>	Wear suitable protective clothing, gloves and eye/face protection

### 3. COMPOSITION : Information on Ingredients

<u>Chemical Ingredient</u>	<u>CAS No.</u>
<u>Proportion</u>	

Free organic isocyanate	< 0.2%
Aromatic hydrocarbon	< 15%

Other ingredients determined not to be hazardous to 100%

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### 4. FIRST AID MEASURES

<b>General Information:</b>	Keep the victim calm
<b>Ingestion :</b>	<p>Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhoea. A potential aspiration hazard if swallowed. May cause damage to lungs. System may parallel inhalation exposure. Do not induce vomiting, give water.</p> <p>If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek immediate medical advice.</p>
<b>Eye Contact :</b>	<p>May cause severe irritation and discomfort. Flush thoroughly with water for at least 15 minutes, keeping eye lids held open. Seek immediate medical advice.</p>
<b>Skin Contact :</b>	<p>Causes irritation to skin. Symptoms include redness, itching and pain. May cause dermatitis. Wash contact area immediately with soap and water. A cotton pad soaked with castor oil can be used to remove product from skin. Remove contaminated clothing and launder before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.</p>
<b>Inhalation :</b>	<p>Inhalation can cause irritation to respiratory tract. Symptoms may include coughing, shortness of breath, burning sensation in chest, headache, nausea, weakness, restlessness and unco-ordination, drowsiness and coma. Remove from further exposure to fresh air. If breathing is difficult or irregular apply artificial respiration by qualified personnel. If unconscious, seek immediate medical assistance.</p>
<b>First Aid Facilities:</b>	Eye wash fountains and safety showers should be readily available
<b>Advice to</b>	Contact Poisons Information Centre in Australia Phone 13 1126.
<b>Doctor:</b>	Treat effects symptomatically. Effects may be delayed.

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### 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Foam, carbon dioxide, dry chemical, water fog. Do not use water jet.
<b>Hazards from Combustion Products:</b>	Decomposes on heating emitting oxides of carbon.
<b>PPE for Fire Fighters:</b>	Fire fighters must wear full protective equipment, including self contained breathing apparatus.
<b>Hazchem Code:</b>	•3Y

### 6. ACCIDENTAL RELEASE MEASURES

#### **Emergency Procedures :**

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure drain valves are closed at all times. Clean up and report spills immediately.

#### **Methods and materials for containment and clean-up :**

Eliminate all ignition sources. Increase ventilation if possible. Contain spill using sand, earth, vermiculite or other suitable absorbent. Place contaminated absorbent in drums for disposal. Personnel involved in clean-up must use recommended protective equipment. Dispose of in accordance with Local Regulations.

### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling :**

The material is combustible. Eliminate all ignition sources. Ensure ventilation is sufficient to prevent a build-up of vapour.

#### **Conditions for Safe Storage :**

Store in cool, dry place. Product will absorb moisture from the atmosphere. After decanting product for application, keep containers closed at all times. Avoid storage of these partially used containers . Contamination of drummed product with water may lead to drum rupture.

#### **Container Advice :**

Containers, even those that have been emptied, can contain flammable or explosive vapours. Do not cut , drill, grind, weld or perform similar operations on or near containers.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### National Exposure Standards :

##### STEL

Isocyanate (as NCO )  
Aromatic hydrocarbon

##### TWA

0.005 ppm TLV  
Not established

**TWA** – (Time Weighted Average) – Maximum average airborne concentration experienced over an eight-hour working day, for a five-day working week over an entire working life.

**STEL** – (Short Term Exposure Limit ) – Average airborne concentration over a 15-minute period which should not be exceeded at any time during a normal eight-hour working day.

#### **Engineering Controls :**

Use only in a well ventilated area. Ventilation must be sufficient to maintain exposure below recommended exposure standards above.

#### **Personal Protective Equipment (PPE):**

##### **Eye/Face:**

Chemically resistant safety glasses with side shields. If there is a risk of splashing wear a full-face shield. Ensure eye wash facilities are available and all workers are aware of location.

##### **Skin/Body :**

Wear impervious protective clothing, including boots, gloves (Viton or Nitrile rubber), coveralls. Ensure protective equipment is decontaminated before re-use.

##### **Respiratory :**

If inhalation risk exists, wear a respirator fitted with cartridge suitable for organic vapours. This must comply with AS/NZS 1715/1716:1994 STANDARD.

##### **Other Information:**

Wash hands before smoking, eating, drinking and going to the toilet.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Green paste
Odour	Aromatic Hydrocarbon.
pH	Not applicable
Vapour Pressure	Not available
Vapour Density	Not available
Boiling Point	Not available
Freezing Point	Not available
Solubility ( water)	immiscible
Solubility (aromatic solvent)	miscible
Specific Gravity	1.3
Flash Point, CC :	64°C

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions of use. Avoid storage conditions, which heat the product above the flash point.
<b>Conditions to Avoid:</b>	Avoid heat, sparks, open flames and other ignition sources. Prevent vapour accumulation.
<b>Incompatible Materials:</b>	Strong alkali, acids, oxidising agent and water.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may occur at temperatures above flash point. A complex mixture of airborne solids, liquids and gases, including carbon monoxide, carbon dioxide and other organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

### 11. TOXICOLOGICAL INFORMATION

Specific data for this product is unavailable; the following information is based on tests with the aromatic hydrocarbon used in this product

<b>Acute Oral</b>	Low toxicity – LD <sub>50</sub> > 2000mg/kg, Rat.
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<b>Toxicity:</b>	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis, which can be fatal.
<b>Acute Dermal Toxicity:</b>	Low toxicity - LD <sub>50</sub> > 2000 mg/kg. Classified as harmful under EC criteria, Rabbit.
<b>Acute Inhalation Toxicity:</b>	Low toxicity – LC <sub>50</sub> > 20mg/l 4 hours, Rat Classified as harmful under EC criteria. High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea; continued inhalation may result in unconsciousness and/or death.
<b>Skin Irritation:</b>	Irritating to skin. Frequent, prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
<b>Eye Irritation :</b>	Moderately irritating to eyes (but insufficient to classify)
<b>Respiratory Irritation :</b>	Inhalation of vapours may cause irritation to the respiratory system.
<b>Sensitisation :</b>	Not expected to be a skin sensitiser.
<b>Repeated Dose Toxicity:</b>	Central nervous system - repeated exposure affects the nervous system.
<b>Mutagenicity :</b>	Not mutagenic
<b>Carcinogenicity :</b>	Not carcinogenic in animal studies.
<b>Reproductive and Developmental Toxicity :</b>	Does not impair fertility. Causes foetotoxicity in animals at doses, which are maternally toxic.

## 12. ECOLOGICAL INFORMATION

Specific data for this product is not available, the following information is based on tests with the aromatic hydrocarbon, the main solvent in this product.

### **Aquatic Toxicity :**

Fish	Toxic: 1<LC/EC/IC150<= 10mg/l
Aquatic invertebrates	Toxic: 1<LC/EC/IC150<= 10mg/l
Algae	Toxic: 1<LC/EC/IC150<= 10mg/l

**Mobility:** If product enters soil, it will be highly mobile and may contaminate ground water

**Persistence/degradability:** Readily biodegradable. Oxidises rapidly by photochemical reactions in air.

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**Bioaccumulation:** Does not bioaccumulate significantly

**Other Adverse Effects:** In view of the high rate of loss from solution, the product is unlikely to pose a significant hazard to aquatic life.

### 13. DISPOSAL CONSIDERATIONS

**Material Disposal:** Part containers can be gelled by mixing in a small amount of water, approximately 1-2%. Be careful not to add too much, as the product will foam and overflow. If setting the material with water, provide for the foaming by placing in a bunged/sealed area to prevent the foam from escaping to surrounding environment. Care should be taken to ensure compliance with national and local authorities.

**Container Disposal:** Drain container thoroughly of uncured material or mix a little water into uncured material, as described above. After draining allow all remaining material to cure in safe place away from sparks or fire. Ensure empty packaging is allowed to dry.

### 14. TRANSPORT

**Transport :** Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**UN Number:** 1268

**Proper Shipping Name:** PETROLEUM PRODUCT, N.O.S.

**Class:** 3

**Packaging Group:** III

**Hazchem Code:** •3Y

**Emergency Response Guide:** 14



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### 15. REGULATORY INFORMATION

**Hazardous according to the criteria of SWA.**

**Poisons Schedule:** S5

**Labelling:** Xi – Irritant; Xn – Harmful; C - Corrosive

**R-Phase(s):**

R10	Flammable
R20	Harmful by inhalation
R34	Causes burns
R45	May cause cancer
R65	Harmful: May cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness
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**Safety Phase(s):**

S2	Keep out of reach of children
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S28	After contact with skin wash immediately with plenty of soap-suds
S38	In case of insufficient ventilation, wear respiratory equipment
S45	In case of accident or you feel unwell, seek medical advice immediately (Show label whenever possible)
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### 16. OTHER INFORMATION

**Reason for Issue :** 5 year update.

**Legend:**

<b>ASCC</b>	:	Australian Safety and Compensation Council
<b>ACIS</b>	:	Australian Inventory of Chemical Substances
<b>CAS Number</b>	:	Chemical Abstracts Service Registry Number
<b>IARC</b>	:	International Agency for Research on Cancer
<b>SWA</b>	:	Safe Work Australia
<b>NOHSC</b>	:	National Occupational Health and Safety Council
<b>PPE</b>	:	Personal Protective Equipment
<b>NTP</b>	:	National Toxicology Program (USA)
<b>SUSDP</b>	:	Standard for the Uniform Scheduling of Drugs & Poisons
<b>UN Number</b>	:	United Nations Number