

# DuO HT

## 4 SLATES/F C180 FC



WATERPROOFING

APPLICATIONS

ROOFS

TECHNICAL DATA SHEET

ANZ-TDS-01-DuO HT 4 SLATES/F C180 FC

### DESCRIPTION

DuO HT 4 SLATES/F C180 FC is a flexible waterproofing membrane with a dual reinforcement and a double polymeric bitumen coating. The upper coating consists of TPO (Thermoplastic PolyOlefins) - modified bitumen, resulting in a high mechanical and UV resistance.

The undercoating consists of SBS (Styrene Butadiene Styrene) - modified bitumen with high elasticity and strong adhesion properties. The composite reinforcement of polyester & glass fibre (180 g/m<sup>2</sup>) combine to provide strength and stability.

The upper side is finished with an optimally pressed-in mixture of black colored and anthracite granules and the underside is covered with a sacrificial film.

The selvedge with a width of 8 cm is coated with SBS modified bitumen to ensure an SBS-SBS seal. This provides an easy application technique and perfectly sealed joints

### FIELD OF APPLICATION

DuO HT 4 SLATES/F C180 FC has been especially designed for fire-resistant applications. It is especially used as cap sheet for single or multi-layer torched applications.

### APPLICATION METHOD

DuO HT 4 SLATES/F C180 FC can be fully heat welded using a propane torch or with MINI MACADEN machine.

### INSTALLATION PROCEDURE

#### SUBSTRATE

- No work should be started until all surfaces are smooth, dry and free of ice, snow or any other substance that may prevent the membrane from adhering properly.
- Substrate must have a minimum 1% gradient to ensure that water drains to drainage outlets.
- Do not install heat welded membranes directly onto combustible substrate.
- Concrete substrate must be fully cured before application of the membrane.
- Concrete substrate must have a Concrete Surface Profile (CSP) between 3 and 5 as per International Concrete Repair Institute.
- Adhesion test is recommended prior to installation of membrane.
- Commencement of installation shall be taken as acceptance of the substrate by the Applicator.

#### PRIMING

- When installed over concrete or metal surface prime with SOPRADERE QUICK at the rate specified in TDS.

#### HEAT WELDING

- Unroll membrane sheets onto the roof surface.
- Starting at the low point of the roof, lay out the membrane to ensure the plies are installed perpendicular to the roof slope, shingled to prevent back-water laps. Ensure specified minimum 80 mm side-laps overlap and minimum 150mm end-laps overlap are maintained. End-laps should be staggered 1 m apart.
- As the membrane ply is unrolled, apply heat to the underside of the ply until the thermofusible plastic film melts sufficiently for full adhesion to the substrate, and full adhesion between plies.
- For hand-held roof torches, continuously move the torch side-to-side across the underside of the roll to melt the bitumen while continuously unrolling sheet. While unrolling and heating the sheet, ensure approximately 6 to 12 mm of hot bitumen flows ahead of the roll, and there is 3 to 6 mm bleed out at all laps. Ensure all side-laps are fully adhered and sealed watertight.
- Adjust application methods to accommodate varying environmental conditions as necessary to achieve the desired results.

CodeMark Certificate CM70138

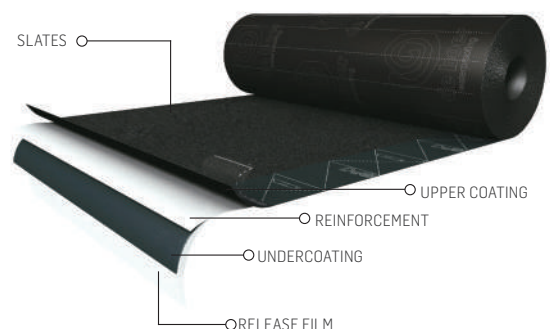
Compliance with AS 4654.1

Unique combination APP/SBS technology

Fire-retardant

High mechanical properties

Life expectancy of 35 years



Upper coating: TPO-plastomer modified bitumen  
 Composite reinforcement (180 g/m<sup>2</sup>) of polyester and glass fibre  
 Undercoating: SBS-elastomer modified bitumen

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- At the 150 mm end-laps ensure a fully adhered watertight seal. Melt the thermofusible plastic film or embed granules and remove other membrane surfacing, where present, using a torch or hot-air welder.
- All penetrations and upturn details should be waterproofed as per SOPREMA Installation Guides and detail drawings.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR DuO REPRESENTATIVE.

### PACKAGING

| SPECIFICATIONS   | DuO HT 4 SLATES/F C180 FC |
|------------------|---------------------------|
| Thickness        | 4 mm                      |
| Roll dimensions  | 8 m × 1 m                 |
| Roll weight      | 37 kg                     |
| Rolls per pallet | 23                        |

(All values are nominal)

### PROPERTIES

| PROPERTY  | TEST METHOD                              | DuO HT 4 SLATES/F C180 FC  |
|---|--|--|
| Visual defects  | EN 1850-1                                | PASS   |
| Straightness  | EN 1848-1                                | PASS   |
| External fire performance in accordance with EN 13501-5 | CEN/TS 1187                              | NA   |
| Reaction to fire in accordance with EN 13501-1          | EN 13501-1                               | F  |
| Tensile strength (L/T)                                  | AS 4654.1                                | 800 N/5 cm (±15) / 1200 N/5 cm (±100)  |
| Elongation at break (L/T)                               | AS 4654.1                                | MD: 73 (±9) %<br>CD: 55 (±5) %   |
| Abrasion resistance                                     | AS 1580.403.2                            | 0.14   |
| Bond strength   | ASTM C794                                | 40 ± 10 N/2.5cm<br>Type of failure :<br>70% cohesive in the bitumen mass<br>30% cohesive in the primer |
| Dimensional stability                                   | ASTM D6207                               | MD: 0,01% CD: 0,05%  |
| Cyclic movement   | CSIRO Moving Joint Test (see Appendix B) | Pass (22°C / 26% RH)   |
| Field seam strength                                     | ASTM D1876                               | 7.4 (±0.8) N/m   |
| Heat ageing   | AS 4654.1 (AS 1145.3)                    | Pass / No change   |
| Ultraviolet resistance                                  | AS 4654.1 (AS 1145.3) (ASTM D4799)       | Pass / No change   |
| Durability  | AS 4654.1                                | Pass   |
| Water vapour transmission rate                          | ASTM E96                                 | 0*   |

\* The results values are below the tolerance of the equipment.

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### STORAGE AND HANDLING

Rolls must be stored upright. If stored outdoors, cover them with an opaque protection cover after removal of the delivery packaging.

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative or the contractor are responsible for checking the suitability of products for their intended use.

Note: Field service where provided, does not constitute supervisory responsibility. Suggestions made by Soprema Australia Pty Ltd either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they are responsible for carrying out procedures appropriate to a specific application.

## Enduroflex Soprema DuO Membrane

Chemwatch: 5484-45  
Version No: 2.1.18.11  
Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Chemwatch Hazard Alert Code: 0

Issue Date: 03/09/2021  
Print Date: 17/09/2021  
L.GHS.AUS.EN

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

#### Product Identifier

|                               |                |
|-------------------------------|----------------|
| Product name                  | DuO membrane   |
| Chemical Name                 | Not Applicable |
| Synonyms                      | Not Available  |
| Chemical formula              | Not Applicable |
| Other means of identification | Not Available  |

#### Relevant identified uses of the substance or mixture and uses advised against

|                          |  |
|--------------------------|--|
| Relevant identified uses | Waterproofing membrane.<br>Use according to manufacturer's directions. |
|--------------------------|--|

#### Details of the supplier of the safety data sheet

|                         |   |
|-------------------------|---|
| Registered company name | Soprema Australia Pty Ltd                   |
| Address                 | L 35/100 Barangaroo Avenue, Sydney NSW 2000 |
| Telephone               | +61 3 9221 6230                             |
| Fax                     | Not Available                               |
| Website                 | www.soprema.com.au                          |
| Email                   | info@soprema.com.au                         |

#### Emergency telephone number

|                                   |   |
|-----------------------------------|---|
| Association / Organisation        | Soprema Australia Pty Ltd                         |
| Emergency telephone numbers       | 042 595 2526 (Cruz Utanga: Mon-Fri 7.30am to 4pm) |
| Other emergency telephone numbers | Not Available                                     |

### SECTION 2 Hazards identification

#### Classification of the substance or mixture

|                    |                |
|--------------------|----------------|
| Poisons Schedule   | Not Applicable |
| Classification [1] | Not Applicable |

#### Label elements

|                     |                |
|---------------------|----------------|
| Hazard pictogram(s) | Not Applicable |
| Signal word         | Not Applicable |

#### Hazard statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

Not Applicable

#### Precautionary statement(s) Response

Not Applicable

#### Precautionary statement(s) Storage

Not Applicable

#### Precautionary statement(s) Disposal

Not Applicable

### SECTION 3 Composition / information on ingredients

#### Substances

See section below for composition of Mixtures

## DuO membrane

## Mixtures

| CAS No         | %[weight] | Name   |
|----------------|-----------|--|
| Not Available  | 100       | article contains   |
| Not Available  |           | reinforcing base material coated with bitumen and surface finish.  |
| Not Available  |           | base material contains   |
| Not Available  |           | polyester, glass/polyester, foil and glass fiber.  |
| Not Available  |           | bitumen coating contains   |
| Not Available  |           | mineral filler and/or synthetic polymers.  |
| Not Available  |           | surface finish contains  |
| Not Available  |           | sand, talcum, mineral states/granules and polymer film.  |
| <b>Legend:</b> |           | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L; * EU IOELVs available |

## SECTION 4 First aid measures

## Description of first aid measures

|                     |  |
|---------------------|--|
| <b>Eye Contact</b>  | When product is subjected to high temperature, hot bitumen splashed into eye should be cooled immediately by irrigating with cold running water, the eyes as wide open as possible, for at least 15 minutes. Obtain medical advice.<br>▶ Generally not applicable.   |
| <b>Skin Contact</b> | When product is subjected to high temperature, in the event of contact with hot bitumen immediately irrigate affected part under cold running water. (for 15 minutes) and transport urgently to specialized hospital. Do not attempt to remove the adhering bitumen as it can act as a sterile barrier until healing occurs. If not detached by itself, it may be removed using warm medicinal liquid paraffin.<br>▶ Generally not applicable. |
| <b>Inhalation</b>   | When product is subjected to high temperature, Remove from sources of fume into fresh air if any ill effects are experienced. Rest and keep warm. If unwell seek medical advice.<br>▶ Generally not applicable.  |
| <b>Ingestion</b>    | ▶ Not considered a normal route of entry.<br>▶ Immediately give a glass of water.<br>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.   |

## Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Firefighting measures

## Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.

## Special hazards arising from the substrate or mixture

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

## Advice for firefighters

|                              |   |
|------------------------------|---|
| <b>Fire Fighting</b>         | <ul style="list-style-type: none"> <li>▶ Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>▶ <b>Do not</b> approach containers suspected to be hot.</li> <li>▶ Cool fire exposed containers with water spray from a protected location.</li> <li>▶ If safe to do so, remove containers from path of fire.</li> <li>▶ Equipment should be thoroughly decontaminated after use.</li> </ul> |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul>  |
| <b>HAZCHEM</b>               | Not Applicable  |

## SECTION 6 Accidental release measures

## Personal precautions, protective equipment and emergency procedures

See section 8

## Environmental precautions

See section 12

## Methods and material for containment and cleaning up

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Secure load if safe to do so.</li> <li>▶ Bundle/collect recoverable product.</li> <li>▶ Collect remaining material in containers with covers for disposal.</li> </ul>  |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Minor hazard.</li> <li>▶ Clear area of personnel.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear physical protective gloves e.g. Leather.</li> <li>▶ Contain spill/secure load if safe to do so.</li> <li>▶ Bundle/collect recoverable product and label for recycling.</li> </ul> |

Continued...

DuO membrane

- ▶ Collect remaining product and place in appropriate containers for disposal.
- ▶ Clean up/sweep up area.
- ▶ Water may be required.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 Handling and storage**

**Precautions for safe handling**

|                          |  |
|--------------------------|--|
| <b>Safe handling</b>     | No special handling procedures required.   |
| <b>Other information</b> | Stored in places protected from the sun and the weather. Avoid temperatures below 5°C, as well as over 35°C.<br>▶ Keep dry |

**Conditions for safe storage, including any incompatibilities**

|                                |   |
|--------------------------------|---|
| <b>Suitable container</b>      | Do not store rolls without the protection packaging film.<br>▶ Check that containers are clearly labelled |
| <b>Storage incompatibility</b> | None known  |

**SECTION 8 Exposure controls / personal protection**

**Control parameters**

**Occupational Exposure Limits (OEL)**

**INGREDIENT DATA**

Not Available


**Emergency Limits**

| Ingredient   | TEEL-1        | TEEL-2        | TEEL-3        |
|--------------|---------------|---------------|---------------|
| DuO membrane | Not Available | Not Available | Not Available |

| Ingredient   | Original IDLH | Revised IDLH  |
|--------------|---------------|---------------|
| DuO membrane | Not Available | Not Available |

**MATERIAL DATA**

**Exposure controls**

|   |   |
|---|---|
| <b>Appropriate engineering controls</b> | None under normal operating conditions.   |
| <b>Personal protection</b>              |    |
| <b>Eye and face protection</b>          | None under normal operating conditions.   |
| <b>Skin protection</b>                  | See Hand protection below   |
| <b>Hands/feet protection</b>            | Wear general protective gloves, eg. light weight rubber gloves.<br>No special equipment required due to the physical form of the product. |
| <b>Body protection</b>                  | See Other protection below  |
| <b>Other protection</b>                 | No special equipment required due to the physical form of the product.  |

**SECTION 9 Physical and chemical properties**

**Information on basic physical and chemical properties**

|   |   |  |                |
|---|---|--|----------------|
| <b>Appearance</b>                                   | Black sheet in roll form with various surface finishes. |  |                |
| <b>Physical state</b>                               | Manufactured  | <b>Relative density (Water = 1)</b>            | Not Applicable |
| <b>Odour</b>  | Not Available   | <b>Partition coefficient n-octanol / water</b> | Not Available  |
| <b>Odour threshold</b>                              | Not Available   | <b>Auto-ignition temperature (°C)</b>          | Not Applicable |
| <b>pH (as supplied)</b>                             | Not Applicable  | <b>Decomposition temperature</b>               | Not Applicable |
| <b>Melting point / freezing point (°C)</b>          | Not Applicable  | <b>Viscosity (cSt)</b>                         | Not Applicable |
| <b>Initial boiling point and boiling range (°C)</b> | Not Applicable  | <b>Molecular weight (g/mol)</b>                | Not Applicable |
| <b>Flash point (°C)</b>                             | Not Applicable  | <b>Taste</b>                                   | Not Available  |
| <b>Evaporation rate</b>                             | Not Applicable  | <b>Explosive properties</b>                    | Not Available  |
| <b>Flammability</b>                                 | Not Applicable  | <b>Oxidising properties</b>                    | Not Available  |
| <b>Upper Explosive Limit (%)</b>                    | Not Applicable  | <b>Surface Tension (dyn/cm or mN/m)</b>        | Not Applicable |

DuO membrane

|                           |                 |                           |                |
|---------------------------|-----------------|---------------------------|----------------|
| Lower Explosive Limit (%) | Not Applicable  | Volatile Component (%vol) | Not Applicable |
| Vapour pressure (kPa)     | Not Applicable  | Gas group                 | Not Available  |
| Solubility in water       | Partly miscible | pH as a solution (%)      | Not Available  |
| Vapour density (Air = 1)  | Not Applicable  | VOC g/L                   | Not Applicable |

SECTION 10 Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | See section 7   |
| Chemical stability                 | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7   |
| Conditions to avoid                | See section 7   |
| Incompatible materials             | See section 7   |
| Hazardous decomposition products   | See section 5   |

SECTION 11 Toxicological information

Information on toxicological effects

|              |   |
|--------------|---|
| Inhaled      | Not normally a hazard due to physical form of product.  |
| Ingestion    | Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract |
| Skin Contact | Not normally a hazard due to physical form of product.  |
| Eye          | Not normally a hazard due to physical form of product.  |
| Chronic      | ▸ Generally not applicable.   |

|              |               |               |
|--------------|---------------|---------------|
| DuO membrane | TOXICITY      | IRRITATION    |
|              | Not Available | Not Available |

**Legend:** 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

|                                   |   |                          |   |
|-----------------------------------|---|--------------------------|---|
| Acute Toxicity                    | ✗ | Carcinogenicity          | ✗ |
| Skin Irritation/Corrosion         | ✗ | Reproductivity           | ✗ |
| Serious Eye Damage/Irritation     | ✗ | STOT - Single Exposure   | ✗ |
| Respiratory or Skin sensitisation | ✗ | STOT - Repeated Exposure | ✗ |
| Mutagenicity                      | ✗ | Aspiration Hazard        | ✗ |

**Legend:** ✗ – Data either not available or does not fill the criteria for classification  
✔ – Data available to make classification

SECTION 12 Ecological information

Toxicity

| DuO membrane | Endpoint      | Test Duration (hr) | Species       | Value         | Source        |
|--------------|---------------|--------------------|---------------|---------------|---------------|
|              | Not Available | Not Available      | Not Available | Not Available | Not Available |

**Legend:** Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

**DO NOT** discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

Bioaccumulative potential

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

DuO membrane

**SECTION 13 Disposal considerations**

**Waste treatment methods**

|                                     |  |
|-------------------------------------|--|
| <b>Product / Packaging disposal</b> | <ul style="list-style-type: none"> <li>▶ Recycle wherever possible or consult manufacturer for recycling options.</li> <li>▶ Consult State Land Waste Management Authority for disposal.</li> <li>▶ Bury residue in an authorised landfill.</li> <li>▶ Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|-------------------------------------|--|

**SECTION 14 Transport information**

**Labels Required**

|                         |                |
|-------------------------|----------------|
| <b>Marine Pollutant</b> | NO             |
| <b>HAZCHEM</b>          | Not Applicable |

**Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code**

|                     |              |
|---------------------|--------------|
| <b>Product name</b> | <b>Group</b> |
|---------------------|--------------|

**Transport in bulk in accordance with the ICG Code**

|                     |                  |
|---------------------|------------------|
| <b>Product name</b> | <b>Ship Type</b> |
|---------------------|------------------|

**SECTION 15 Regulatory information**

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

**National Inventory Status**

| National Inventory                               | Status  |
|--|---|
| Australia - AIIIC / Australia Non-Industrial Use | Not Available   |
| Canada - DSL                                     | Not Available   |
| Canada - NDSL                                    | Not Available   |
| China - IECSC                                    | Not Available   |
| Europe - EINEC / ELINCS / NLP                    | Not Available   |
| Japan - ENCS                                     | Not Available   |
| Korea - KECI                                     | Not Available   |
| New Zealand - NZIoC                              | Not Available   |
| Philippines - PICCS                              | Not Available   |
| USA - TSCA                                       | Not Available   |
| Taiwan - TCSI                                    | Not Available   |
| Mexico - INSQ                                    | Not Available   |
| Vietnam - NCI                                    | Not Available   |
| Russia - FBEPH                                   | Not Available   |
| <b>Legend:</b>                                   | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

**SECTION 16 Other information**

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 03/09/2021 |
| <b>Initial Date</b>  | 03/09/2021 |

**Other information**

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

**Definitions and abbreviations**

PC—TWA: Permissible Concentration-Time Weighted Average  
 PC—STEL: Permissible Concentration-Short Term Exposure Limit  
 IARC: International Agency for Research on Cancer  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 STEL: Short Term Exposure Limit



TEEL: Temporary Emergency Exposure Limit.  
IDLH: Immediately Dangerous to Life or Health Concentrations  
ES: Exposure Standard  
OSF: Odour Safety Factor  
NOAEL :No Observed Adverse Effect Level  
LOAEL: Lowest Observed Adverse Effect Level  
TLV: Threshold Limit Value  
LOD: Limit Of Detection  
OTV: Odour Threshold Value  
BCF: BioConcentration Factors  
BEI: Biological Exposure Index  
AIIIC: Australian Inventory of Industrial Chemicals  
DSL: Domestic Substances List  
NDSL: Non-Domestic Substances List  
IECSC: Inventory of Existing Chemical Substance in China  
EINECS: European INventory of Existing Commercial chemical Substances  
ELINCS: European List of Notified Chemical Substances  
NLP: No-Longer Polymers  
ENCS: Existing and New Chemical Substances Inventory  
KECI: Korea Existing Chemicals Inventory  
NZIoC: New Zealand Inventory of Chemicals  
PICCS: Philippine Inventory of Chemicals and Chemical Substances  
TSCA: Toxic Substances Control Act  
TCSI: Taiwan Chemical Substance Inventory  
INSQ: Inventario Nacional de Sustancias Químicas  
NCI: National Chemical Inventory  
FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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TEL (+61 3) 9572 4700.