



## HEALTH AND SAFETY PRODUCT INFORMATION

Product: Direct Glaze Primer

Date : 1<sup>st</sup> May 2009

Product code: 472613

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1.

| Company Name and Address  |
|---|
| INDASA Abrasives (UK) Limited, Viking Works, Greenstead Road, Colchester CO1 2ST<br>Tel : 01206 870366 Fax : 01206 860525 Email : office@indasa.co.uk |

2.

| Composition/Information on ingredients    |                                 |         |                             |           |
|---|---------------------------------|---------|-----------------------------|-----------|
| Global description                        | Primer for Polyurethane Sealant |         |                             |           |
| Components that may contribute to hazards |                                 |         |                             |           |
| Cas No.                                   | Name                            | Range   | R. Phrases                  | Symbol    |
|   |                                 | W/W%    |                             |           |
| Butyl acetate                             | 123-86-4                        | 10-25%  | 10,66,67                    |           |
| Ethyl acetate                             | 141-78-6                        | 25-50%  | 11,36,66,67                 | Xi        |
| Methoxy methylethyl acetate               | 108-65-6                        | 2.5-10% | 10,36                       | Xi        |
| Xylene                                    | 1330-20-7                       | 1.35%   | 10,20/21,38                 | Xn        |
| Hexamethylene diisocyanate                | 822-06-0                        | <1%     | 10,23,36/37/38,42/43        | T         |
| Toluylene diisocyanate                    | 26471-62-5                      | <1%     | 26,36/37/38,40,42/43,52/53  | T+        |
| Aromatic aliphatic polyisocyanate         | 63368-95-6                      | 10-25%  | 43                          | Xi        |
| Diphenylmethane diisocyanate              |                                 |         |                             |           |
| Isomeres and homologues                   | 26447-40-5                      | <1%     | 20,36/37/38,42/43           | Xn        |
| Dibutyltin dilaurate                      | 77-58-7                         | <0.25%  | <b>22-36/38-48/22-50/53</b> | <b>Xn</b> |
|   |                                 |         | <b>;N</b>                   |           |

3.

| Hazards identification |   |
|------------------------|---|
| Specific hazards       |   |
| R-phrases              | Description   |
| <b>R20</b>             | <b>Harmful by inhalation</b>                                  |
| <b>R36</b>             | <b>Irritating to the eyes</b>                                 |
| <b>42/43</b>           | <b>May cause sensitization by inhalation and skin contact</b> |
| <b>66</b>              | <b>Repeated exposure may cause skin dryness or cracking</b>   |

4.

| First-Aid measures |  |
|--------------------|--|
| Inhalation         | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice. |
| Skin               | Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.   |
| Eyes               | Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.  |
| Ingestion          | If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.  |
| General            | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.  |

5.

| Fire-Fighting measures  |                                 |
|---|---------------------------------|
| Extinguishing media   |                                 |
| Use   | Water spray, CO2, powders, foam |
| Don't use   | Water jet                       |
| Use an appropriate breathing apparatus. Cool closed containers exposed to fire with water. Vapours may explode if they are inflamed in closed area. |                                 |

6.

| Accidental release measures  |  |
|--|--|
| Personal precautions   |  |
| Wear appropriate equipment as described in § 8.  |  |
| Environmental precautions  |  |
| Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.                                |  |
| Methods for cleaning-up  |  |
| Collect spillage with non-combustible absorbent materials, (sand, vermiculite) and place in container. One possible decontaminant comprises: Water/Ethanol or IPA/Ammonia solution (45/50/5 by volume) |  |

7.

| Handling and storage |  |
|----------------------|--|
| Handling             | Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is used. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. |
| Storage              | Store in a dry, well ventilated area between +5 and +25°C and place away from sources of heat and direct sunlight. Keep away from oxidising agent, from strongly acid materials as well as amines. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed.  |

8.

| Exposure controls/personal protection |   |       |             |       |
|---------------------------------------|---|-------|-------------|-------|
| Name                                  | VME (8h/j)  |       | VLE(15 min) |       |
|                                       | ppm   | mg/m3 | ppm         | mg/m3 |
| Butyl acetate                         | 150   | 710   | 200         | 940   |
| Ethyl acetate                         | 400   | 1400  |             |       |
| Xylene                                | 100   | 435   | 150         | 650   |
| Hexamethylene diisocyanate            | 0.01  | 0.075 | 0.02        | 0.15  |
| Toluylene diisocyanate                | 0.01  | 0.08  | 0.02        | 0.16  |
| Diphenylmethane diisocyanate          | 0.01  | 0.1   | 0.02        | 0.2   |
| Protection                            |   |       |             |       |
| Respiratory protection                | :Do not inhale vapours. Provide adequate ventilation with a good general extraction.        |       |             |       |
| Eye and skin protection               | :Avoid skin/eye contact. Use safety eyewear, neoprene gloves and closed protective clothing |       |             |       |
| Protection during working             | :Smoking, eating are prohibited in application area. Wash the hands after working.          |       |             |       |
|                                       | :Do not touch eyes with dirty hands.  |       |             |       |

9.

| Physical and chemical properties |        |                                |                  |
|----------------------------------|--------|--------------------------------|------------------|
| Physical state                   | Liquid | PH                             | N/A              |
| Form                             | Can    | Log P octanol/water            |                  |
| Color                            | Black  | Solubility in water            | No reaction      |
| Temperatures                     |        | Solubility in organic solvents | Partly           |
| Melting point                    |        | Vapour tension                 | 9.72 KPA at 20°C |
| Boiling point                    |        | Vapour density                 |                  |

|                       |      |              |               |
|-----------------------|------|--------------|---------------|
| Flash point           | 10°C | Density      | 1.03 g/ml     |
| Autoignition          |      | Conductivity |               |
| Explosion range lower | 2.2% | Odour        | PA            |
| Explosion range upper |      | VOC content  | 47/48% weight |

**10.**

| <b>Stability and reactivity</b>   |   |
|---|---|
| The preparation is stable under recommended storage and handling conditions (see section 7) | <b>Hazardous decomposition products.</b><br>:During polymerisation: CO <sub>2</sub> , which in closed containers can result in pressurisation. In case of fire : isocyanates, carbon monoxide and dioxide, smoke, oxides of nitrogen, hydrogen cyanide. |

**11.**

| <b>Toxicological information</b> |   |
|----------------------------------|---|
| LD/LC Value                      | <b>Diphenylmethane 4.4' diisocyanate</b><br>Acute Oral LD50 rat (mg/kg) >15000<br>Acute Inhalation LC50 rat (mg/1/4h) 0.49<br><b>Ethyle acetate</b><br>Acute Oral LD50 rat (mg/kg) 5600<br>Acute Inhalation LC50 rat (mg/1/4h) 56000<br><b>Xylene</b><br>Acute Oral LD50 rat (mg/kg) 4300<br><b>Methoxy methylethyl acetate</b><br>Acute Oral LD50 rat (mg/kg) 8500<br>Acute Inhalation rat (mg/1/4h) 35.7  |
| Inhalation                       | Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric conditions well below the OEL. Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness |
| Skin                             | Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.  |
| Eyes                             | The liquid splashed in the eyes may cause irritation and reversable damage  |

**12.**

| <b>Ecological information</b>  |  |
|--|--|
| The preparation has been assessed following the conventional method of the Dangerous Preparations Directive (1999/45/EC) and classified not dangerous for the environment. The product should not be allowed to enter drains or water courses. |  |
| Ecotoxicity  | The product should not be allowed to enter drains or water courses |

**13.**

| <b>Disposal information</b> |   |
|-----------------------------|---|
| Product                     | In accordance with federal. National and local legislation. |
| Disposal code               | 080409  |

**14.**

| <b>Transport information</b> |  |          |                                       |
|------------------------------|--|----------|---------------------------------------|
| Special precautions          |  |          |                                       |
| Classifications              |  |          |                                       |
| SEA IMDG                     | Page 3220;<br>N0 ONU 1263;<br>Class 3.2; | ROAD ADR | Clas 3.2;<br>Number 3 b);<br>Code 33; |

|               |                                    |  |                |
|---------------|------------------------------------|--|----------------|
|               | <b>Number 11;<br/>Identif 3-07</b> |  | <b>Label 3</b> |
| AIR ICAO/IATA | <b>Class 3;<br/>Number 11</b>      |  |                |

15.

| <b>Regulatory information</b>            |  |
|--|--|
| In accordance with 67/548/CE et 99/45/CE |  |
| Contains                                 | <b>Isocyanates – See information supplied by the manufacturers, this information is supplied in the present safety data sheet<br/>Diphenylmethane diisocyanate, isomers and homologues<br/>Aromatic aliphatic Polyisocyanate</b> |
| Symbol                                   | <b>Xn : Harmful<br/>F: Highly Flammable</b>  |
| R-phrases                                | <b>20 – Harmful by inhalation<br/>36 – Irritating to eyes<br/>42/43 – May cause sensitization by inhalation and skin contact<br/>66 – Repeated exposure may cause skin dryness or cracking</b>                                   |
| S-phrases                                | <b>23 – Do not breathe vapours<br/>36/37 – Wear suitable protective clothing, gloves<br/>45 – in case of accident or if you feel unwell, seek medical advice immediately ( show label where possible)</b>                        |

16.

| <b>Other information</b>   |                 |                       |
|--|-----------------|-----------------------|
| Creation date  | <b>01.05.09</b> | Production Management |
| Replace sheet of   | <b>01.03.07</b> | <b>Martyn Barnes</b>  |
| <p><b>Professional table : n°4bis, 62, 84</b><br/> <b>Text of R-Statements listed in ingredients(\$2)</b><br/> <b>R10 - Flammable</b><br/> <b>R11 - Highly flammable</b><br/> <b>R20/21 – Harmful by inhalation, and in contact with skin</b><br/> <b>R23 – Toxic by inhalation</b><br/> <b>R26 – Very toxic by inhalation</b><br/> <b>R36/37/38 – Irritating to eyes, respiratory system and skin</b><br/> <b>R40 – Limited evidence of a carcinogenic effect</b><br/> <b>R42/43 - may cause sensitization by inhalation and skin contact</b><br/> <b>48/22 – Harmful; danger of serious damage to health by prolonged exposure if swallowed</b><br/> <b>R52/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</b><br/> <b>R66 – Repeated exposure may cause skin dryness or cracking</b><br/> <b>R67 – Vapours may cause drowsiness and dizziness</b><br/>           Modified sections in this revision :2.16<br/> <b>I = unknown PA = Not concerned SF = Secret of process</b></p> |                 |                       |
| <p><b>This leaflet is for general guidance only and may contain inappropriate information under particular conditions. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.</b></p>   |                 |                       |