Smartkote

SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

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

1.1 Product identifier

- Product Name: Zn 2K POLYURETHANE PRIMER B
- UFI: Not available
- Product Part Number: 140

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

- Use of the substance/mixture: Solvent based dual component zinc based primer, curing agent Part B

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: ZEST POLYURETHANES
- Address of Supplier: 13 Alternator Avenue
  Montague Gardens
  Cape Town
  7441
- Telephone: +27 (021) 555-3090
- Email: zesttechnical@duram.co.za

1.4 Emergency telephone number

- Emergency Telephone: +49-228-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Skin Sens. 1, Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Repr. Cat. 1B, STOT RE 2

2.2 Label elements



GHS02 **GHS08** **GHS07**

- Signal Word: Danger

2.2.1 Hazard statements

H226 - Flammable liquid and vapour.
H360D - May damage the unborn child.

SECTION 2: Hazards identification (....)

H373 - May cause damage to organs through prolonged or repeated exposure.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.
EUH208 - Contains hexamethylene diisocyanate homopolymer. May produce an allergic reaction.

2.2.2 Precautionary statements

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands and skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: use foam, carbon dioxide or dry agent to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/containers in accordance with local regulation.

2.3 Other hazards

- No hazard expected under normal conditions of use.

SECTION 3: Composition/information on ingredients

3.1 Substances

- Not applicable

3.2 Mixtures

3.2.1 hexamethylene diisocyanate homopolymer

CAS Number: 28182-81-2

SECTION 3: Composition/information on ingredients (....)

EC Number:	500-060-2
Concentration:	60-70%
Specific Concentration Limits:	Not available
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Skin Sens. 1
Symbols:	GHS07
H Statements:	H317

3.2.2 xylene

CAS Number:	1330-20-7
EC Number:	215-535-7
Concentration:	10-20%
Specific Concentration Limits:	Not available
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1
Symbols:	GHS02;GHS07
H Statements:	H226;H332;H312;H315
REACH Registration Number:	01-2119488216-32

3.2.3 2-methoxypropyl acetate

CAS Number:	70657-70-4
EC Number:	274-724-2
Concentration:	5-15%
Specific Concentration Limits:	Not available
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Flam. Liq. 3, Repr. Cat. 1B, STOT SE 3
Symbols:	GHS02;GHS08;GHS07
H Statements:	H226;H360D;H335

3.2.4 hexamethylene-di-isocyanate

CAS Number:	822-06-0
EC Number:	212-485-8
Concentration:	<0.5%
Specific Concentration Limits:	Not available
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3

SECTION 3: Composition/information on ingredients (....)

Symbols:	GHS06;GHS08
H Statements:	H331;H335;H315;H319;H334;H317

Any concentrations shown as a range is to protect confidentiality and/or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

- IF exposed or concerned: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- May damage the unborn child.
- Causes damage to organs through prolonged or repeated exposure.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- If eye irritation occurs: Get medical advice/attention.
- If skin irritation or rash occurs: Get medical advice/attention.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- Get immediate medical advice/attention.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- In case of fire: use foam, carbon dioxide or dry agent to extinguish.
- Fog to cool and control.
- Do not use water jets.

5.2 Special hazards arising from the substance or mixture

- Flammable liquid and vapour.
- Hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke may be produced.

5.3 Advice for firefighters

- Wear protective equipment and respirators.
- Blown or distorted containers should be handled with extreme caution.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Eliminate every possible source of ignition (open fire, sparks, smoking, ...). Evacuate all personnel immediately and ventilate area. Avoid breathing vapour and contact with skin, eyes and clothing. Wear recommended personal protective equipment.
- Keep people and animals away.

6.2 Environmental precautions

- Contain spillage by any means possible.
- Do not allow to enter public sewers and watercourses.
- MAJOR SPILLAGE: Contain and collect spilled product using a suitable adsorbent material. Shovel material into a clean, dry, labelled container and close lid. Consult your local waste authority for advice on disposal.
- MINOR SPILLAGE: Mop up spill. Wash residues away with water and detergent.

6.3 Methods and material for containment and cleaning up

- Ensure adequate ventilation.
- Collect the spillage in closable, suitable disposal containers. Clean up any spills as soon as possible, using an inert absorbent material. Residue is to be washed down with plenty of water.

6.4 Reference to other sections

- See section 7 for information on safe handling.
- See section 8 for information on personal protection equipment.
- See section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Flammable.
- Do not handle until all safety precautions have been read and understood.
- Keep away from sources of ignition - No Smoking.
- Wash contaminated clothing before reuse.
- Dispose of contents/container to an authorised waste collection point.

7.2 Conditions for safe storage, including any incompatibilities

- Store separately from any reactive substances, especially oxidisers.
- Keep container tightly closed, in a cool, well-ventilated place.

7.3 Specific end use(s)

- Follow the Manufacturer's recommended uses and procedures for this product.
- Opened containers should be carefully resealed and stored in an upright position.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

SECTION 8: Exposure controls/personal protection (....)

8.1.1 xylene

DNEL (Industry; inhalational, long term local effects): 221 mg/m³
DNEL (Industry; inhalational, short term systemic effects): 442 mg/m³
DNEL (Industry; inhalational, long term systemic effects): 221 mg/m³
DNEL (Industry; dermal, long term systemic effects): 212 mg/kg
DNEL (Industry; inhalational, short term local effects): 442 mg/m³
DNEL (Consumer; inhalational, short term local effects): 260 mg/m³
DNEL (Consumer; inhalational, short term systemic effects): 260 mg/m³
DNEL (Consumer; inhalational, long term local effects): 65.3 mg/m³
DNEL (Consumer; dermal, long term systemic effects): 125 mg/kg
DNEL (Consumer; inhalational, long term systemic effects): 65.3 mg/m³
DNEL (Consumer; oral, long term systemic effects): 12.5 mg/kg

8.2 Exposure controls



Gloves **Boots** **Goggles** **Respirator**

- Observe normal rules of hygiene, wash hands and skin before eating, drinking or smoking.
- Wear suitable protective clothing, eye/face protection.
- The selection of personal protective equipment depends on marks of quality, which may vary from manufacturer to manufacturer.
- The resistance of the glove has to be checked prior to application. For penetration of the glove material, observe the breakthrough time supplied by the manufacturer.
- In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: liquid
- Colour: clear
- Odour: characteristic odour
- Melting point/Range: <0°C
- Boiling Point/Range: >140°C
- Flammability: flammable
- pH: not applicable
- Solubility in water: immiscible with water
- Density: 1.07 g/cm³ at 20 °C
- Viscosity: 200-600 centipoise at 20 °C
- Flashpoint: 38°C

9.2 Other information

- Please see Technical Data Sheet (TDS) for further information.

SECTION 10: Stability and reactivity

10.1 Reactivity

- Static discharge hazard.
- Stable under normal conditions of use.

10.2 Chemical stability

- Stable if stored under recommended conditions.

10.3 Possibility of hazardous reactions

- No dangerous reactions known under conditions of normal use.

10.4 Conditions to avoid

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Avoid contact with alkalis (strong bases).
- Keep in a cool, dry, well-ventilated place.

10.5 Incompatible materials

- Incompatible with oxidizing substances.

10.6 Hazardous decomposition products

- In case of fire and/or explosion do not breathe fumes.
- Hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke may be produced.
- No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

Estimated LD_{50} (oral) (ATE) : >2000 mg/kg
Estimated LD_{50} (dermal) (ATE) : 9777.778 mg/kg
Estimated LD_{50} (inhalational) (ATE) : 85.27132 mg/l/4hr (gas/vapour)

11.1.1.1 xylene

LD_{50} (oral, rat): 3523 mg/kg male
LD_{50} (dermal, rabbit): >4200 mg/kg

11.1.2 Skin corrosion/irritation

Causes skin irritation.

11.1.3 Serious eye damage/irritation

Causes serious eye irritation.

11.1.4 Respiratory or skin sensitisation

May cause an allergic skin reaction.

SECTION 11: Toxicological information (....)

11.1.5 Germ cell mutagenicity

No known effects.

11.1.6 Carcinogenicity

No known effects.

11.1.7 Reproductive toxicity

May damage the unborn child.

11.1.8 STOT (specific target organ toxicity) - single exposure

No known effects.

11.1.9 STOT (specific target organ toxicity) - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

11.1.10 Aspiration hazard

No information available but must be considered harmful.

11.2 Information on other hazards

- No further or addtional information available.

SECTION 12: Ecological information

12.1 Toxicity

12.1.1 xylene

EC_{50} (daphnia): 3.82 mg/l (48 hr)
LC_{50} (fish): 2.6 mg/l (96 hr)

12.1.2 xylene

PNEC (Fresh water):	0.327 mg/l
PNEC (Marine water):	0.327 mg/l
PNEC (Sediment; fresh water):	12.46 mg/kg
PNEC (Sediment; marine water):	12.46 mg/kg
PNEC (Soil):	2.31 mg/kg
PNEC (STP):	6.58 mg/l

12.2 Persistence and degradability

- No information available.

12.3 Bioaccumulative potential

- Low bioaccumulation potential.

12.4 Mobility in soil

SECTION 12: Ecological information (....)

- Immiscible with water.

12.5 Results of PBT and vPvB assessment

- Components do not meet the criteria of PBT or vPvB.

12.6 Endocrine disrupting properties

- No known effects or hazards.

12.7 Other adverse effects

- No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Avoid or minimize the generation of waste.
- Packaging waste should be recycled where possible.
- Dispose of contents/container to an authorised waste collection point.

SECTION 14: Transport information



Flammable Liquid

14.1 UN number or ID number

- UN No.: 1263

14.2 UN proper shipping name

- Proper Shipping Name: PAINT

14.3 Transport hazard class(es)

- Hazard Class: 3

14.4 Packing group

- Packing Group: III

14.5 Environmental hazards

- On available data, substance is not harmful to the environment.

14.6 Special precautions for user

- Contains hexamethylene diisocyanate homopolymer. May produce an allergic reaction.

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable.

SECTION 15: Regulatory information

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

- Refer to current ADR Regulations.
- This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878.

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed.

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H312: Harmful in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H331: Toxic if inhaled. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H360D: May damage the unborn child.

All information is given in good faith but without guarantee in respect of accuracy.
No responsibility is accepted for errors or omissions or the consequences thereof.

Important Note: The information contained in this SDS is not intended to be exhaustive and believed to be correct at the date of its preparation. It is the user's responsibility to verify that this data sheets is current prior to using the product which is detailed in it. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to its use. Where those purposes are other than as specifically recommended in this safety data sheet, the user then uses the product at their own risk.

Manufacturer's Disclaimer: The conditions, methods and factors effecting the handling, storage, application, use, misuse or disposal of the product are not under the control or knowledge of the Manufacturer. Therefore the Manufacturer does not assume responsibility for any adverse events that may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law the Manufacturer expressively disclaims liability for any and all losses, damages and/or expenses arising out of or in any way is connected to the storage, handling, use or disposal of the product. Safe handling, storage and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.