

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: DURAM NS5 METCOTE ETCH PRIMER
- UFI: Not available
- Product Part Number: 41-90

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

- Use of the substance/mixture: A high adhesion primer for new and weathered mild steel, stainless steel, aluminium, PVC, fibreglass, Chromadek, ZincAlume and AluZinc.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: DURAM (PTY) LTD
- Address of Supplier: 13 Alternator Avenue
Montague Gardens
Cape Town
7441
- Telephone: +27 (021) 555-3090
- Email: customercare@duram.co.za; nmakan@duram.co.za

1.4 Emergency telephone number

- Emergency Telephone: +27 (021) 555-3090 (Office hours)
- Poisons Information Helpline 0861 555 777 (After hours)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

- CLP: Skin Sens. 1, Asp. Tox. 1, Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT RE 2, Aquatic Chronic 3

2.2 Label elements**GHS02****GHS05****GHS08****GHS07**

- Signal Word: Danger

2.2.1 Hazard statements

- H226 - Flammable liquid and vapour.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.

SECTION 2: Hazards identification (....)

- H317 - May cause an allergic skin reaction.
H304 - May be fatal if swallowed and enters airways.
H412 - Harmful to aquatic life with long lasting effects.

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.
P203 - Obtain, read and follow all safety instructions before use.
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.
P363 - Wash contaminated clothing before reuse.
P264 - Wash hands and skin thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
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.
P310 - Immediately call a POISON CENTER or doctor/physician.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
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 ethylbenzene**

CAS Number:	100-41-4
EC Number:	202-849-4
Concentration:	20.0-30.0%
Specific Concentration Limits:	Not available

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

M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1
Symbols:	GHS02;GHS07;GHS08
H Statements:	H225;H332;H304;H373

3.2.2 xylene

CAS Number:	1330-20-7
EC Number:	215-535-7
Concentration:	20.0-30.0%
Specific Concentration Limits:	Not available
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2
Symbols:	GHS02;GHS07
H Statements:	H226;H332;H312;H315

3.2.3 ethyl alcohol

CAS Number:	64-17-5
EC Number:	200-578-6
Concentration:	10.0-20.0%
Specific Concentration Limits:	Not available
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Flam. Liq. 2
Symbols:	GHS02
H Statements:	H225

3.2.4 butan-1-ol

CAS Number:	71-36-3
EC Number:	200-751-6
Concentration:	10.0-15.0%
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 Dam. 1, STOT SE 3
Symbols:	GHS02;GHS05;GHS07
H Statements:	H226;H302;H335;H336;H315;H318

3.2.5 Pentan-2-ol

CAS Number:	6032-29-7
EC Number:	227-907-6
Concentration:	5.0-10.0%
Specific Concentration Limits:	Not available
M factor:	Not available

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

Acute toxicity estimate: Not available
Categories: Flam. Liq. 3, Skin Irrit. 2, STOT SE 3
H Statements: H226, H315, H335

3.2.6 iso-butanol

CAS Number: 78-83-1
EC Number: 201-148-0
Concentration: 2.0-5.0%
Specific Concentration Limits: Not available
M factor: Not available
Acute toxicity estimate: Not available
Categories: Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, STOT SE 3
Symbols: GHS02;GHS05;GHS07
H Statements: H226;H335;H336;H315;H318

3.2.7 bisphenol-A type solid epoxy resin

CAS Number: 25036-25-3
EC Number: Not available
Concentration: 2.0-5.0%
Specific Concentration Limits: None assigned
M factor: Not available
Acute toxicity estimate: Not available
Categories: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1
Symbols: GHS07
H Statements: H315, H317, H319

3.2.8 3-Methylbutan-2-ol

CAS Number: 598-75-4
EC Number: 209-950-2
Concentration: <2.0%
Specific Concentration Limits: Not available
M factor: Not available
Acute toxicity estimate: Not available
Categories: Flam. Liq. 3, Acute Tox. 4, STOT SE 3
Symbols: GHS02, GHS07
H Statements: H226, H332, H335

3.2.9 3-pentanol

CAS Number: 584-02-1
EC Number: 209-526-7
Concentration: <2.0%
Specific Concentration Limits: Not available
M factor: Not available
Acute toxicity estimate: Not available
Categories: Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, STOT SE 3

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

Symbols: GHS02;GHS07
H Statements: H226;H332;H335;H315

3.2.10 heptane

CAS Number: 142-82-5
EC Number: 205-563-8
Concentration: <0.2%
Specific Concentration Limits: Not available
M factor: Not available
Acute toxicity estimate: Not available
Categories: Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1
Symbols: GHS02;GHS08;GHS07;GHS09
H Statements: H225;H304;H336;H315;H400;H410

3.2.11 octane

CAS Number: 111-65-9
EC Number: 203-892-1
Concentration: <0.2%
Specific Concentration Limits: Not available
M factor: Not available
Acute toxicity estimate: Not available
Categories: Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1
Symbols: GHS02;GHS08;GHS07;GHS09
H Statements: H225;H304;H336;H315;H400;H410

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 swallowed, do not induce vomiting: seek medical advice immediately and show this container or label
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Get medical advice/attention if you feel unwell.
- Wash contaminated clothing before reuse.

4.2 Most important symptoms and effects, both acute and delayed

- May be fatal if swallowed and enters airways.
- If skin irritation or rash occurs: Get medical advice/attention.

SECTION 4: First aid measures (....)

- If eye irritation occurs: Get medical advice/attention.
- May cause damage to organs through prolonged or repeated exposure.
- May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - Immediately call a POISON CENTER or doctor/physician.
-

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
- Containers can become pressurised if contents are contaminated with water

5.2 Special hazards arising from the substance or mixture

- Flammable with toxic fumes

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

- Keep people and animals away
- Remove sources of ignition.
- Wear protective clothing/equipment.

6.2 Environmental precautions

- Contain spillage by any means possible
- Do not allow to enter public sewers and watercourses
- MAJOR SPILLAGE: Contain and collect spilt product using a suitable adsorbent material such as vermiculite. 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
- Absorb spillage in inert material and shovel up
- Remove contaminated material to safe location for subsequent disposal

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

SECTION 7: Handling and storage (....)**7.1 Precautions for safe handling**

- Flammable
- Keep away from sources of ignition - No Smoking
- Get medical advice/attention if you feel unwell.
- 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 in a well-ventilated place. Keep cool.
- Store locked up.
- Store separately from any reactive substances, especially oxidisers.

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****8.1.1 xylene**

TWA OEL-RL: 100 ppm
TWA OEL-RL: 435 mg/m³
Short Term OEL-RL: 150 ppm
Short Term OEL-RL: 650 mg/m³
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

8.1.2 ethylbenzene

TWA OEL-RL: 100 ppm
TWA OEL-RL: 435 mg/m³
Short Term OEL-RL: 125 ppm
Short Term OEL-RL: 545 mg/m³
DNEL (Industry; inhalational, short term local effects): 884 mg/m³
DNEL (Industry; inhalational, long term systemic effects): 442 mg/m³
DNEL (Industry; inhalational, short term systemic effects): 884 mg/m³
DNEL (Industry; inhalational, long term local effects): 442 mg/m³
DNEL (Industry; dermal, long term systemic effects): 180 mg/kg
DNEL (Consumer; oral, long term systemic effects): 1.6 mg/kg
DNEL (Consumer; inhalational, long term systemic effects): 15 mg/m³

SECTION 8: Exposure controls/personal protection (....)**8.2 Exposure controls****Boots****Gloves****Goggles**

- 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
- Observe normal rules of hygiene, wash hands and skin before eating, drinking or smoking.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Physical state: liquid
- Colour: available in black, light grey and red
- Odour: aromatic odour
- Melting point/Range: < -46 °C
- Flashpoint: 27°C
- Boiling Point/Range: 140 °C
- Flammability: flammable
- pH: not applicable
- Solubility in water: immiscible with water
- Density: 0.89 g/cm³ at 20 °C
- Viscosity: 40 - 45 seconds (Ford 4 Cup) (Dynamic at 20 °C)

9.2 Other information

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

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Not reactive.
- Stable under normal conditions of use.

10.2 Chemical stability

- Thermal decomposition/ conditions to be avoided: could produce static discharge - use earthing or non-sparking tools.

10.3 Possibility of hazardous reactions

- Stable if stored under normal conditions

10.4 Conditions to avoid

- When exposed to abnormally high temperatures, containers will bulge and possibly burst

10.5 Incompatible materials

SECTION 10: Stability and reactivity (....)

- Incompatible with oxidizing substances
- Reacts with water liberating carbon dioxide gas

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 LD₅₀ (oral) (ATE) : 3873.267 mg/kg
Estimated LD₅₀ (dermal) (ATE) : 5377.816 mg/kg
Estimated LD₅₀ (inhalational) (ATE) : 21.65427 mg/l/4hr (gas/vapour)

11.1.1.1 xylene

LD₅₀ (oral, rat): 3523 mg/kg male
LD₅₀ (dermal, rabbit): >4200 mg/kg

11.1.1.2 ethylbenzene

LD₅₀ (oral, rat): 3500 mg/kg
LD₅₀ (dermal, rabbit): 15400 mg/kg
LC₅₀ (inhalation, rat): 17.8 mg/l 4h vapour

11.1.1.3 butan-1-ol

LC₅₀ (inhalation, rat): 24000 mg/m³ 4hr Vapor
LD₅₀ (dermal, rabbit): 3400 mg/kg
LD₅₀ (oral, rat): 790 mg/kg

11.1.1.4 iso-butanol

LD₅₀ (oral, rat): >2,830mg/kg female
LD₅₀ (dermal, rabbit): >2,000 mg/kg

11.1.2 Skin corrosion/irritation

Causes skin irritation.

11.1.3 Serious eye damage/irritation

Causes serious eye damage.

11.1.4 Respiratory or skin sensitisation

May cause an allergic skin reaction.

11.1.5 Germ cell mutagenicity

No known effects.

11.1.6 Carcinogenicity

SECTION 11: Toxicological information (....)

No known effects.

11.1.7 Reproductive toxicity

No evidence of reproductive effects

11.1.8 STOT (specific target organ toxicity) - single exposure

No known effects.

11.1.9 STOT (specific target organ toxicity) - repeated exposure

Target organs: Central nervous system, hearing, kidneys, liver.

May cause damage to organs through prolonged or repeated exposure.

11.1.10 Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

- No further or additional information available.

SECTION 12: Ecological information**12.1 Toxicity****12.1.1 xylene**

EC₅₀ (daphnia): 3.82 mg/l (48 hr)

LC₅₀ (fish): 2.6 mg/l (96 hr)

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

12.1.2 ethylbenzene

EC₅₀ (daphnia): 1.8-2.4 mg/l (48 hr)

LC₅₀ (fish): 4.2 mg/l (96 hr)

12.1.3 butan-1-ol

EC₅₀ (daphnia): 1,983 mg/l (48 hr)

LC₅₀ (fish): 1,730 mg/l (96 hr)

12.1.4 iso-butanol

EC₅₀ (daphnia): 1,100 mg/l (48 hr)

LC₅₀ (fish): 1,430 mg/l (96 hr)

12.2 Persistence and degradability

- Biodegradable
- Once solidified, can be disposed of in authorised landfill sites as per local regulations.

SECTION 12: Ecological information (....)

12.3 Bioaccumulative potential

- Not bioaccumulative

12.4 Mobility in soil

- Low mobility.
- Additional ecological information: considered to be harmful to terrestrial vertebrates. May have short-term environmental effects. Contain monitor and remove.

12.5 Results of PBT and vPvB assessment

- Not applicable

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

- Hazardous in liquid state. Solidify by reaction with water before disposal.
 - Danger of bursting - do not seal.
 - Uncleaned packaging: Leave container unsealed for 3 to 4 days to solidify by evaporation. Once solid, containers may be disposed of in a landfill site. Disposal must be made according to official regulations.
 - Dispose of contents/container to an authorised waste collection point
-

SECTION 14: Transport information



Flammable Liquid

ADR, IMDG, IATA

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
-

SECTION 14: Transport information (....)**14.6 Special precautions for user**

- Warning: Flammable liquids
- Danger code (Kemler): 33
- EMS Number: F - E, S - E

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
- Refer to current CLP 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:- H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H332: Harmful if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

**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 expressly 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.