

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 195
- UFI: Not available
- Product Part Number: 64-90

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

- Use of the substance/mixture: Moisture-cured polyurethane coating.

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

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: Resp. Sens. 1, Skin Sens. 1, Flam. Liq. 3, Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Muta. Cat. 1B, Carc. 1A, Repr. Cat. 1B

2.2 Label elements

GHS02



GHS08

- Signal Word: Danger

2.2.1 Hazard statements

- H226 - Flammable liquid and vapour.
- H350 - May cause cancer.
- H340 - May cause genetic defects.

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SECTION 2: Hazards identification (....)

H360FD - May damage fertility. May damage the unborn child.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 - May cause an allergic skin reaction.
H304 - May be fatal if swallowed and enters airways.
EUH044 - Risk of explosion if heated under confinement.
EUH204 - Contains isocyanates. 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.
P203 - Obtain, read and follow all safety instructions before use.
P233 - Keep container tightly closed.
P264 - Wash hands and skin thoroughly after handling.
P308+P313 - IF EXPOSED OR CONCERNED: Get medical advice/attention.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P271 - Use only outdoors or in a well-ventilated area.
P285 - In case of inadequate ventilation wear respiratory protection.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P370+P378 - In case of fire: use foam, carbon dioxide or dry agent to extinguish.
P321 - Specific treatment (see instructions on this label).
P243 - Take action to prevent static discharges.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P362+P364 - Take off contaminated clothing and wash it before reuse.
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

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

- Not applicable

3.2 Mixtures

3.2.1 propriety blend of petroleum byproducts

CAS Number: 65996-93-2
EC Number: 266-028-2
Concentration: 20.0-30.0%
Specific Concentration Limits: None assigned
M factor: Not available
Acute toxicity estimate: Not available
Categories: Muta. Cat. 1B; Carc. 1A; Repr. Cat. 1B
Symbols: GHS08
H Statements: H350,H340,H360FD

3.2.2 naphtha (petroleum), light arom.

CAS Number: 64742-95-6
EC Number: 265-199-0
Concentration: <5.0%
Specific Concentration Limits: Not available
M factor: Not available
Acute toxicity estimate: Not available
Categories: Muta. Cat. 1B, Carc. 1B, Asp. Tox. 1
Symbols: GHS08
H Statements: H350;H340;H304

3.2.3 diphenylmethane diisocyanate, isomers and homologues

CAS Number: 9016-87-9
EC Number: 618-498-9
Concentration: <3.0%
Specific Concentration Limits: None assigned
M factor: Not available
Acute toxicity estimate: Not available
Categories: Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2
Symbols: GHS07, GHS08
H Statements: H315, H317, H319, H332, H334, H335, H351, H373

3.2.4 ethylbenzene

CAS Number: 100-41-4
EC Number: 202-849-4
Concentration: <2.0%
Specific Concentration Limits: Not available
M factor: Not available

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

| | |
|--------------------------|--|
| 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 |

3.2.5 diphenylmethane-4,4'-diisocyanate

| | |
|--------------------------------|---|
| CAS Number: | 101-68-8 |
| EC Number: | 202-966-0 |
| Concentration: | <2.0% |
| Specific Concentration Limits: | Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0,1 % STOT SE 3; H335: C ≥ 5 % |
| M factor: | Not available |
| Acute toxicity estimate: | Not available |
| Categories: | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2, STOT SE 3, STOT RE 2 |
| Symbols: | GHS08;GHS07 |
| H Statements: | H351;H332;H335;H373;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

IF exposed or concerned: Get medical advice/attention.

4.1 Description of first aid measures

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- If skin irritation or rash occurs: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Toxic if swallowed.
- Inhalation sensitiser with accumulative effects.
- Risk of dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

- Do NOT induce vomiting.
-

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

- Container can become pressurized if contents are exposed to heat and flames.
- 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

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

6.2 Environmental precautions

- Contain spillage by any means possible.
- Do not allow to enter public sewers and watercourses.

6.3 Methods and material for containment and cleaning up

- Ensure adequate ventilation.
- Hazardous in liquid state. Solidify by reaction with water before 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

7.1 Precautions for safe handling

- Forms hazardous decomposition products.
- Flammable.
- Keep away from sources of ignition - No Smoking.
- Keep away from oxidising substances.
- Wash contaminated clothing before reuse.
- Dispose of contents/container to an authorised waste collection point.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage (....)

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

7.3 Specific end use(s)

- Open with care. Cover lid/ bung with a cloth while releasing pressure.
 - Generates carbon dioxide gas from reaction with water.
 - Do not seal if contaminated with water due to danger of bursting.
-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 i. propriety blend of petroleum byproducts

DNEL (Industry; dermal, long term systemic effects): 33 mg/kg/day
DNEL (Industry; dermal, long term local effects): 6.6 µg/cm²
DNEL (Industry; inhalational, long term systemic effects): 0.106 µg/m³

8.1.2 ii. propriety blend of petroleum byproducts

DNEL (Industry; inhalational, long term systemic effects): 4.13 mg/m³
DNEL (Industry; dermal, long term systemic effects): 2.03 mg/kg/day

8.1.3 iii. propriety blend of petroleum byproducts

DNEL (Industry; inhalational, short term systemic effects): 51 mg/m³
DNEL (Industry; dermal, long term systemic effects): 1.06 mg/kg/day
DNEL (Industry; inhalational, long term systemic effects): 1.2 mg/m³
DNEL (Industry; inhalational, short term local effects): 12 mg/m³
DNEL (Industry; inhalational, long term local effects): 1.9 mg/m³

8.1.4 naphtha (petroleum), light arom.

DNEL (Consumer; dermal, long term systemic effects): 11 mg/kg
DNEL (Industry; dermal, long term systemic effects): 25 mg/kg
DNEL (Consumer; inhalational, long term systemic effects): 32 mg/m³
DNEL (Industry; inhalational, long term systemic effects): 150 mg/m³
DNEL (Consumer; oral, long term systemic effects): 11 mg/kg

8.1.5 ethylbenzene

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

8.2 Exposure controls

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



Boots



Gloves



Goggles

- Observe normal rules of hygiene, wash hands and skin before eating, drinking or smoking.
- Wear suitable protective clothing, eye/face protection.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- A cartridge-type respirator with cartridge for organic fumes is essential for spraying conditions.
- 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.



Respirator

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state: liquid
- Colour: black
- Odour: Aromatic odour
- Melting point/Range: < -46 °C
- Flashpoint: 27°C (ASTM D56)
- Boiling Point/Range: 140 °C
- Flammability: Flammable
- pH: 8.0
- Solubility in water: Not miscible, reacts with water
- Density: 1.06 g/cm³ at 20 °C
- Viscosity: 12 000 - 15 000 cP at 23 °C

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

- Reacts with water.

10.2 Chemical stability

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

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

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.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

- 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.
-

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) : >2000 mg/kg
Estimated LD₅₀ (dermal) (ATE) : >4000 mg/kg
Estimated LD₅₀ (inhalational) (ATE) : 8.760989 mg/l/4hr (gas/vapour)

11.1.1.1 propriety blend of petroleum byproducts

LD₅₀ (oral, rat): >2000 mg/kg
LD₅₀ (skin, rat): >2000 mg/kg
LC₅₀ (inhalation, rat): >404 mg/m³ 4H

11.1.1.2 naphtha (petroleum), light arom.

LD₅₀ (oral, rat): 3492 mg/kg
LD₅₀ (dermal, rabbit): >3160 mg/kg
LC₅₀ (inhalation, rat): >6193 mg/m³

11.1.1.3 ethylbenzene

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

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

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SECTION 11: Toxicological information (....)

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

11.1.5 Germ cell mutagenicity

May cause genetic defects.

11.1.6 Carcinogenicity

May cause cancer.

11.1.7 Reproductive toxicity

May damage fertility. May damage the unborn child.

11.1.8 STOT (specific target organ toxicity) - single exposure

No known effects or hazards.

11.1.9 STOT (specific target organ toxicity) - repeated exposure

No known effects or hazards.

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 i. propriety blend of petroleum byproducts

EC₅₀ (daphnia): >100 mg/l (48 hr)

12.1.2 ii. propriety blend of petroleum byproducts

PNEC (Fresh water): 0.33 µg/l

PNEC (STP): >10 mg/l

12.1.3 iii. propriety blend of petroleum byproducts

PNEC (Fresh water): 3.55 µg/l

PNEC (STP): 3.23 mg/l

12.1.4 iv. propriety blend of petroleum byproducts

PNEC (Fresh water): 3.8 µg/l

PNEC (intermittent): 0.14 mg/l

PNEC (Marine water): 3.8 µg/l

PNEC (Sediment; fresh water): 1.6 mg/kg dry weight

PNEC (Sediment; marine water): 0.16 mg/kg dry weight

PNEC (Soil): 0.19 mg/kg dry weight

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SECTION 12: Ecological information (....)

PNEC (STP): 0.5 mg/l

12.1.5 naphtha (petroleum), light arom.

EC₅₀ (daphnia): 3.2 mg/l (48 hr)

12.1.6 ethylbenzene

EC₅₀ (daphnia): 1.8-2.4 mg/l (48 hr)

LC₅₀ (fish): 4.2 mg/l (96 hr)

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

- Not bioaccumulative.

12.4 Mobility in soil

- Immiscible with water.
- Low due to solidification by reaction with water.
- 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

- Use reputable waste disposal contractors.
 - Hazardous in liquid state. Solidify by reaction with water before disposal.
 - Danger of bursting - do not seal.
 - Destroy used containers.
 - Dispose of contaminated containers in accordance with local regulations.
-

SECTION 14: Transport information

ADR, IMDG, IATA



Flammable Liquid

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SECTION 14: Transport information (....)

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: m-tolylidene diisocyanate; toluene-diisocyanate ethylbenzene
- Warning: Flammable liquids
- 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.
- 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.
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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. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H340: May cause genetic defects. H350: May cause cancer. H351: Suspected of causing cancer. H360FD: May damage fertility. May damage the unborn child. H373: May cause damage to organs through prolonged or repeated exposure.

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

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SECTION 16: Other information (....)

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.

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