

Dura Paints - Heavy Duty Polyurethane - Aluminium

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 10
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SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

1.1. GHS product identifier

Product form	: Mixture
Trade name	: Dura Paints - Heavy Duty Polyurethane - Aluminium
Type of product	: Coatings
Product code	: HDPUALUM
Product group	: Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use	: Light industrial coating applications
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1.4. Supplier's details

Manufacturer

Dura Paints (Pty) Ltd.
5 Wakefield Road; Founders View South.
P.O. Box 303
1610 Edenvale; Johannesburg – South Africa
T 011 452 5221
orders@durapaints.co.za - www.durapaints.co.za

1.5. Emergency phone number

Emergency number	: 079 494 2731 / 011 452 5221
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SECTION 2: Hazard identification

2.1. GHS classification of the substance/mixture and any national or regional information

Classification according to the United Nations GHS

Flammable liquids, Category 2	H225
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1	H350
Reproductive toxicity, Category 1	H360
Specific target organ toxicity – single exposure, Category 1	H370
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects	: Highly flammable liquid and vapour, May cause cancer, May cause genetic defects, May damage fertility or the unborn child, May cause damage to organs through prolonged or repeated exposure, Causes damage to organs, Harmful in contact with skin, Harmful if inhaled, Causes skin irritation, May be fatal if swallowed and enters airways, Toxic to aquatic life with long lasting effects.
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2.2. GHS label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)

:



Signal word (GHS ZA)

: Danger

Hazardous ingredients

: 2-butoxyethanol; Xylene; Ethylbenzene; Aluminium powder (stabilised); Naphtha (petroleum), hydrotreated heavy; Ethylglycol Acetate

Hazard statements (GHS ZA)

: H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H312+H332 - Harmful in contact with skin or if inhaled
H315 - Causes skin irritation
H340 - May cause genetic defects (Dermal, Oral, Inhalation)
H350 - May cause cancer (Dermal, Oral, Inhalation)
H360 - May damage the unborn child, May damage fertility. (Dermal, Oral, Inhalation)
H370 - Causes damage to organs (central nervous system, Skin, lung/respiratory system) (Dermal, Inhalation)
H373 - May cause damage to organs (cardiovascular system, kidneys, liver) through prolonged or repeated exposure (Inhalation, Dermal, Oral)
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS ZA)

: P101 - If medical advice is needed, have product container or label and product safety data sheet at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 - Ground and bond container and receiving equipment.
P261 - Avoid breathing mist, spray, vapours, fume.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P501 - Dispose of container to Recycling, according to local regulations.

P-statements for label (GHS-ZA)

: P101 - If medical advice is needed, have product container or label and product safety data sheet at hand.; P102 - Keep out of reach of children.; P103 - Read carefully and follow all instructions.; P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.; P240 - Ground and bond container and receiving equipment.; P261 - Avoid breathing mist, spray, vapours, fume.; P271 - Use only outdoors or in a well-ventilated area.; P273 - Avoid release to the environment.; P280 - Wear eye protection, protective clothing, protective gloves.; P501 - Dispose of container to Recycling, according to local regulations.

2.3. Other hazards which do not result in classification or are not covered by the GHS

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Xylene	CAS-No.: 1330-20-7	25 – 44.5	Flam. Liq. 3, H226 Acute Tox. Not classified (Oral) Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. Not classified (Inhalation:vapour) Skin Irrit. 2, H315 STOT SE 1, H370 STOT RE Not classified Aquatic Chronic 2, H411
Ethylbenzene	CAS-No.: 100-41-4	12.5 – 21	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Hydrocarbons, C9, aromatics	CAS-No.: 128601-23-0	5 – 12	Flam. Liq. 3, H226 Acute Tox. 3 (Inhalation:vapour), H331 STOT SE 3, H336 STOT SE 3, H335 STOT RE Not classified Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Aluminium powder (stabilised)	CAS-No.: 7429-90-5	0.6 – 5	Pyr. Liq. 1, H250 Water-react. 2, H261 Acute Tox. Not classified (Oral) Acute Tox. 3 (Inhalation:dust,mist), H331 Carc. 1, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic Not classified
Ethylglycol Acetate	CAS-No.: 111-15-9	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Repr. 1, H360 Aquatic Chronic Not classified
2-butoxyethanol	CAS-No.: 111-76-2	1.5 – 3.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Naphtha (petroleum), hydrotreated heavy	CAS-No.: 64742-48-9	0.3 – 3	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. 4 (Dermal), H312 Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to the United Nations GHS
Cumene	CAS-No.: 98-82-8	0.005 – 0.24	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 STOT RE Not classified Asp. Tox. 1, H304 Aquatic Chronic 2, H411

SECTION 4: First aid measures

4.1. Description of necessary first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.
Self protection of the first-aider	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Harmful in contact with skin. Irritation.
Symptoms/effects after eye contact	: None under normal conditions.
Symptoms/effects after ingestion	: Risk of lung oedema.
Chronic symptoms	: May damage fertility or the unborn child.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate non-essential personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

- For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
- Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
- Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
- Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2-butoxyethanol (111-76-2)

South Africa - Occupational Exposure Limits (Maximum Limits)

Local name	2-Butoxyethanol [EGBE]
RHCA - STEL/C	40 ppm
Regulatory reference	Government Notice No. R. 280, 2021

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2-butoxyethanol (111-76-2)	
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	2-Butoxyethanol (Ethylene glycol monobutyl ether [EGBE])
OEL TWA	120 mg/m ³
	25 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	2-Butoxyethanol
BEI	200 mg/g creatinine Parameter: Butoxyacetic acid (BAA) - Medium: urine - Sampling time: End of shift
Regulatory reference	Government Notice No. R. 280, 2021
Xylene (1330-20-7)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL eight hour TWA	300 ppm
RHCA - STEL/C	200 ppm
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Xylene, o-, m-, p- or mixed isomers
OEL TWA	218 mg/m ³
	50 ppm
OEL STEL	435 mg/m ³
	100 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	Xylenes
BEI	1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift
Regulatory reference	Government Notice No. R. 280, 2021
Ethylbenzene (100-41-4)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Ethyl benzene
RHCA - STEL/C	40 ppm
Remark	CARC (denotes carcinogenicity, which is based on GHS categorisation, including category 1A, 1B), SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Ethyl benzene
OEL TWA	435 mg/m ³

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Ethylbenzene (100-41-4)	
	100 ppm
OEL STEL	545 mg/m ³
	125 ppm
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	Ethyl benzene
BEI	0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns (non-specific)
Regulatory reference	Government Notice No. R. 280, 2021
Aluminium powder (stabilised) (7429-90-5)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Aluminium metal and insoluble compounds
RHCA - STEL/C	2 mg/m ³ (R: respirable fraction) [as Al]
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Aluminium metal
OEL TWA	10 mg/m ³ inhalable particulate 5 mg/m ³ respirable particulate
Regulatory reference	Government Notice No. R 904
Ethylglycol Acetate (111-15-9)	
South Africa - Occupational Exposure Limits (Maximum Limits)	
Local name	2-Ethoxyethyl acetate [EGEEA], [ethylene glycol monoethyl ether acetate]
RHCA - STEL/C	10 ppm
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	2-Ethoxyethyl acetate (Ethylene glycol monoethyl ether acetate [EGEEA])
OEL TWA	27 mg/m ³
	5 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	2-Ethoxyethyl acetate (EGEEA)
BEI	100 mg/g creatinine Parameter: 2-Ethoxyacetic acid - Medium: urine - Sampling time: End of shift at end of workweek
Regulatory reference	Government Notice No. R. 280, 2021
Cumene (98-82-8)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Cumene [isopropyl benzene]
RHCA - STEL/C	100 ppm

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Cumene (98-82-8)	
Remark	CARC (denotes carcinogenicity, which is based on GHS categorisation, including category 1A, 1B), SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Cumene (Isopropyl benzene)
OEL TWA	120 mg/m ³
	25 ppm
OEL STEL	370 mg/m ³
	75 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
Personal protective equipment symbol(s)	



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Opaque.
Colour	: Silver
Odour	: Pungent
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: > -39.3 – < -38.67 °C XYLENE @ 101.3 kPa: ECHA
Boiling point	: > 136.16 – < 144.5 °C XYLENE @ 101.3 kPa: ECHA
Flash point	: ≈ 18 °C XYLENE @ 101 325 Pa: ECHA
Auto-ignition temperature	: > 487.5 – < 488 °C XYLENE:101 325 Pa : ECHA
Decomposition temperature	: No data available
Flammability	: Highly flammable liquid and vapour.
Vapour pressure	: > 8.21 – < 11.057 hPa XYLENE @ 20 - 25 °C : ECHA
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available

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Relative density	: ≈ 1 Source: Product TDS
Relative density of saturated gas/air mixture	: No data available
Density	: $> 0.86 - < 0.88 \text{ g/cm}^3$ XYLENE @ 25 °C : ECHA
Relative gas density	: No data available
Solubility	: soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: $\approx 0.74 \text{ mm}^2/\text{s}$ XYLENE : ECHA
Viscosity, dynamic	: $> 500 - < 700 \text{ cP}$ Source: Product TDS
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Physical state	: Liquid
Appearance	: Opaque.

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Inhalation:dust,mist: Harmful if inhaled.

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ATE ZA (Dermal)	1964.286 mg/kg bodyweight
ATE ZA (dust, mist)	2.326 mg/l/4h
2-butoxyethanol (111-76-2)	
LD50 oral	1414 mg/kg bodyweight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961
LD50 dermal rabbit	$\approx 435 \text{ mg/kg}$ bodyweight ECHA

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2-butoxyethanol (111-76-2)	
LC50 Inhalation - Rat [ppm]	> 633 – < 691 ppm guinea pig 60min : ECHA
Xylene (1330-20-7)	
LD50 oral rat	> 3523 – < 6631 mg/kg bodyweight XYLENE : ECHA
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
LC50 Inhalation - Rat	≥ 27.124 mg/l XYLENE : ECHA
Ethylbenzene (100-41-4)	
LD50 oral rat	≈ 3500 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	≥ 15400 mg/kg bodyweight Source: ECHA
LC50 Inhalation - Rat	≥ 17.629 mg/l Source: ECHA
Aluminium powder (stabilised) (7429-90-5)	
LD50 oral rat	> 15900 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 0.888 mg/l/4h Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Naphtha (petroleum), hydrotreated heavy (64742-48-9)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	≈ 2000 mg/kg bodyweight ource: ECHA
Ethylglycol Acetate (111-15-9)	
LD50 oral rat	3900 mg/kg
LD50 dermal rabbit	10500 mg/kg
LD50 dermal	> 4900 – < 5000 mg/kg Mouse; Source: Supplier SDS
Hydrocarbons, C9, aromatics (128601-23-0)	
LD50 oral rat	≈ 3492 mg/kg bodyweight Source: ECHA
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 6.193 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Cumene (98-82-8)	
LD50 oral rat	> 2260 – < 2700 mg/kg Source: ECHA
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: May cause genetic defects (Dermal, Oral, Inhalation).
Carcinogenicity	: May cause cancer (Dermal, Oral, Inhalation).
Reproductive toxicity	: May damage the unborn child, May damage fertility. (Dermal, Oral, Inhalation).
Ethylglycol Acetate (111-15-9)	
LOAEL (animal/male, F0/P)	≥ 1000 mg/kg Mouse; Testicular atrophy; Source: Supplier SDS
Reproductive toxicity	: May damage the unborn child, May damage fertility. (Dermal, Oral, Inhalation).
STOT-single exposure	: Causes damage to organs (central nervous system, Skin, lung/respiratory system) (Dermal, Inhalation).
Xylene (1330-20-7)	
LOAEL (oral, rat)	≈ 150 mg/kg bodyweight XYLENE : ECHA

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Xylene (1330-20-7)	
NOAEL (oral, rat)	≈ 250 mg/kg bodyweight XYLENE : ECHA
NOAEC (inhalation, rat, gas)	> 450 – < 1800 ppmv/4h XYLENE : 12H : ECHA
STOT-single exposure	Causes damage to organs (central nervous system) (Inhalation).
Hydrocarbons, C9, aromatics (128601-23-0)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
Cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (cardiovascular system, kidneys, liver) through prolonged or repeated exposure (Inhalation, Dermal, Oral).
2-butoxyethanol (111-76-2)	
LOAEL (oral, rat, 90 days)	≈ 69 mg/kg bodyweight/day ECHA
LOAEC (inhalation, rat, gas, 90 days)	≈ 31 ppmv/6h/day ECHA
NOAEL (dermal, rat/rabbit, 28 days)	≈ 150 mg/kg bodyweight/day ECHA
NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study), Remarks on results: other:
Xylene (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
Ethylbenzene (100-41-4)	
NOAEL (oral, rat, 28 days)	≈ 75 mg/kg bodyweight/day Source: ECHA
NOAEC (inhalation, rat, gas, 28 days)	> 250 – < 1000 ppmv/6h/day Source: ECHA
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure (Inhalation, Dermal).
Aluminium powder (stabilised) (7429-90-5)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral, rat, 28 days)	> 200 – < 3225 mg/kg bodyweight/day Source: ECHA
NOAEC (inhalation, rat, 28 days)	≈ 0.05 mg/l Source: ECHA
NOAEL (subchronic, oral, animal/male, 90 days)	1034 mg/kg bodyweight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	1087 mg/kg bodyweight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Naphtha (petroleum), hydrotreated heavy (64742-48-9)	
NOAEC (inhalation, rat, 28 days)	≈ 1.402 mg/l Source: ECHA
Hydrocarbons, C9, aromatics (128601-23-0)	
NOAEL (oral, rat, 28 days)	≥ 600 mg/kg bodyweight/day Source: ECHA
NOAEC (inhalation, rat, 28 days)	≥ 900 mg/l Source: ECHA

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Hydrocarbons, C9, aromatics (128601-23-0)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Cumene (98-82-8)	
NOAEL (oral, rat, 28 days)	≥ 535.8 mg/kg bodyweight/day Source: ECHA
Aspiration hazard	: May be fatal if swallowed and enters airways.
Dura Paints - Heavy Duty Polyurethane - Aluminium	
Viscosity, kinematic	≈ 0.74 mm ² /s XYLENE : ECHA

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

2-butoxyethanol (111-76-2)	
LC50 - Fish [1]	1474 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	≈ 1800 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≈ 623 mg/l Fresh water algae : ECHA
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
NOEC chronic algae	≈ 88 mg/l Fresh water algae : ECHA

Xylene (1330-20-7)	
LC50 - Fish [1]	> 2.6 – < 9.6 mg/l Source: ECHA
EC50 - Crustacea [1]	≥ 10.389 mg/l Source: Echa
EC50 72h - Algae [1]	> 4.6 – < 4.9 mg/l XYLENE : Aquatic Algae : ECHA
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
NOEC chronic algae	≈ 0.44 mg/l XYLENE : Aquatic Algae 73H : ECHA

Ethylbenzene (100-41-4)	
LC50 - Fish [1]	5.1 mg/l Test organisms (species): Menidia menidia
EC50 - Crustacea [1]	> 1.8 – < 2.4 mg/l Source: ECHA
EC50 72h - Algae [1]	5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	4.9 mg/l Test organisms (species): Skeletonema costatum
EC50 96h - Algae [1]	3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	7.7 mg/l Test organisms (species): Skeletonema costatum
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'

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Ethylbenzene (100-41-4)	
NOEC chronic algae	≈ 3.4 mg/l Fresh water algae; Source: ECHA
Aluminium powder (stabilised) (7429-90-5)	
LC50 - Fish [1]	> 78 – < 218644.1 µg/l Source: ECHA
EC50 - Crustacea [1]	> 1.5 – < 2.56 mg/l Source: ECHA
EC50 72h - Algae [1]	1.05 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.2 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic fish	> 4.7 – < 23.1 mg/l Source: ECHA
NOEC chronic crustacea	> 1.092 – < 2.099 mg/l 30 days; Source: ECHA
Ethylglycol Acetate (111-15-9)	
LC50 - Fish [1]	42.2 mg/l Source: HSDB
LC50 - Fish [2]	≥ 4.1 mg/l Species: Lepomis macrochirus; Source: Supplier SDS
Hydrocarbons, C9, aromatics (128601-23-0)	
LC50 - Fish [1]	≥ 9.2 mg/l Source: ECHA
EC50 72h - Algae [1]	0.42 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.29 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≈ 0.59 mg/l 590 µg/L; Source: ECHA
NOEC chronic fish	≈ 0.34 mg/l 340 µg/L; Source: ECHA
Cumene (98-82-8)	
LC50 - Fish [1]	≈ 4.7 mg/l Test organisms (species): Cyprinodon variegatus
LC50 - Fish [2]	≈ 4.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	≈ 2.14 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	≈ 2.45 mg/l Source: ECHA
EC50 72h - Algae [1]	≈ 2.01 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	≈ 1.29 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	≈ 0.35 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≈ 0.38 mg/l Test organisms (species): other: Duration: '28 d'
NOEC chronic algae	≈ 1.49 mg/l Source: ECHA

12.2. Persistence and degradability

Dura Paints - Heavy Duty Polyurethane - Aluminium	
Persistence and degradability	Not rapidly degradable
2-butoxyethanol (111-76-2)	
Persistence and degradability	
Xylene (1330-20-7)	
Persistence and degradability	

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Xylene (1330-20-7)	
Chemical oxygen demand (COD)	> 2.56 – < 2.91 g O ₂ /g substance
Ethylbenzene (100-41-4)	
Persistence and degradability	
Aluminium powder (stabilised) (7429-90-5)	
Persistence and degradability	
Naphtha (petroleum), hydrotreated heavy (64742-48-9)	
Persistence and degradability	
Ethylglycol Acetate (111-15-9)	
Persistence and degradability	
Hydrocarbons, C9, aromatics (128601-23-0)	
Persistence and degradability	
Cumene (98-82-8)	
Persistence and degradability	
12.3. Bioaccumulative potential	
Dura Paints - Heavy Duty Polyurethane - Aluminium	
Bioaccumulative potential	No additional information available
2-butoxyethanol (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	≈ 0.81 @ 20 °C : ECHA
Partition coefficient n-octanol/water (Log Kow)	≈ 0.81 @ 25 °C and pH 7 : ECHA
Xylene (1330-20-7)	
Partition coefficient n-octanol/water (Log Pow)	> 3.155 – < 3.16 XYLENE @ 20 °C : ECHA
Partition coefficient n-octanol/water (Log Kow)	> 3.12 – < 3.2 XYLENE @ 20 °C and pH 7: ECHA
Ethylbenzene (100-41-4)	
BCF - Fish [1]	≈ 110 l/kg Source: ECHA
Partition coefficient n-octanol/water (Log Kow)	> 3.03 – < 3.6 @ 20 °C and pH 7.84; Source: ECHA
Ethylglycol Acetate (111-15-9)	
Partition coefficient n-octanol/water (Log Kow)	0.24 Source: GESTIS
Bioaccumulative potential	The substance has low potential for bioaccumulation.
Hydrocarbons, C9, aromatics (128601-23-0)	
Partition coefficient n-octanol/water (Log Kow)	> 3.03 – < 4.73 @ 20 °C and pH 7; Source: ECHA
Cumene (98-82-8)	
Partition coefficient n-octanol/water (Log Kow)	≈ 3.55 @ 20 °C; Source: ECHA
12.4. Mobility in soil	
Dura Paints - Heavy Duty Polyurethane - Aluminium	
Mobility in soil	No additional information available

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Xylene (1330-20-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≈ 537 XYLENE: @ 20 °C : ECHA
Ethylbenzene (100-41-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≈ 1331 at 20°C : ECHA
Hydrocarbons, C9, aromatics (128601-23-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	> 358.67 – < 8544.76 L/kg @ 20 °C;Source: ECHA

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

SECTION 13: Disposal Considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Ecological waste information	: The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers.

SECTION 14: Transport information

In accordance with SANS / UN RTDG / IMDG / IATA

SANS	UN RTDG	IMDG	IATA
14.1. UN number			
1263	1263	1263	1263
14.2. UN Proper Shipping Name			
PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint
Transport document description			
Not applicable	UN 1263 PAINT RELATED MATERIAL, 3, II	UN 1263 PAINT RELATED MATERIAL, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1263 Paint, 3, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)			
3	3	3	3
	 Not applicable		
14.4. Packing group, if applicable			
II	II	II	II

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SANS	UN RTDG	IMDG	IATA
14.5. Environmental hazards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available			

14.6. Special precautions for user

SANS

Special provisions (SANS)	: 163, 187
Limited quantities (SANS)	: 5 L
Excepted quantities (SANS)	: E2
Packagings, large packagings and IBCs Packing instructions (SANS)	: P001, IBC02
Packagings, large packagings and IBCs Special packing instructions (SANS)	: PP1
Portable tank and bulk containers instructions (SANS)	: T4
Portable tank and bulk container special provisions (SANS)	: TP1, TP8, TP28

UN RTDG

Special provisions (UN RTDG)	: 163, 367
Limited quantities (UN RTDG)	: 5L
Excepted quantities (UN RTDG)	: E2
Packing instruction (UN RTDG)	: P001, IBC02
Special packing provisions (UN RTDG)	: PP1
Portable tank and bulk container special instructions (UN RTDG)	: T4
Portable tank and bulk container special provisions (UN RTDG)	: TP1, TP8, TP28

IMDG

Special provisions (IMDG)	: 163, 367
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8, TP28
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A72, A192
ERG code (IATA)	: 3L

14.7. Transport in bulk according to IMO instructions

Not applicable

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SECTION 15: Regulatory information

15.1. National regulations

15.1.1. OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

Prohibited Hazardous Chemical Agents

Not regulated

15.1.2. National Environmental Management Act, 1998

Regulation No. 51358 (Prior Informed Consent Procedure Regulations, 2024)

Not regulated

15.2. Safety, health, and environmental national regulations specific for the product

State or local regulations : This product complies with South African legal lead limit of 90ppm or less.

SECTION 16: Other information

Issue date : 11/06/2025
Revision date : 28/07/2026
Supersedes : 11/06/2025

Full text of H-statements:

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H250	Catches fire spontaneously if exposed to air
H261	In contact with water releases flammable gases
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), South Africa (HCA)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.