# Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 9
Issue date: 7/13/2023 Revision date: 6/13/2025 Supersedes: 7/13/2023 Version: 2.0

## SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

### 1.1. GHS product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Trade name | : | Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome |
| Type of product | : | Coatings |
| Product code | : | HDPU |
| 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 |

### 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
Contact: Lizel Rosemann

### 1.5. Emergency phone number

| | | |
|---|---|---|
| Emergency number | : | 079 494 2731 / 011 452 5221 |

## 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 (inhalation:dust,mist) Category 4 | H332 |
| Skin corrosion/irritation, Category 2 | H315 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Carcinogenicity, Category 1B | H350 |
| 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 – Acute Hazard, Category 1 | H400 |
| 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 damage to organs through prolonged or repeated exposure,Causes damage to organs,Harmful if inhaled,Causes skin irritation,Causes serious eye irritation,May be fatal if swallowed and enters airways,Very toxic to aquatic life,Toxic to aquatic life with long lasting effects. |

## 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; Cumene; ethylbenzene; Lead Sulfochromate; Lead chromate molybdate sulfate red/scarlet; Methyl Isobutyl Ketone

Hazard statements (GHS ZA) :
H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H350 - May cause cancer (Inhalation)
H370 - Causes damage to organs (central nervous system) (Inhalation)
H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (Inhalation)
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS ZA) :
P101 - If medical advice is needed, have product container or label 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.
P261 - Avoid breathing dust, mist, spray, vapours.
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 - Get medical advice/attention if you feel unwell
P332+P313 - If skin irritation 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.
P501 - Dispose of container to recycling, according to local regulations.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P-statements for label (GHS-ZA) : P101 - If medical advice is needed, have product container or label 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.; P261 - Avoid breathing dust, mist, spray, vapours.; P264 - Wash hands, forearms and face thoroughly after handling.; P273 - Avoid release to the environment.; P280 - Wear eye protection, protective clothing, protective gloves.; P302+P352 - IF ON SKIN: Wash with plenty of soap and water; IF INHALED: Remove person to fresh air and keep comfortable for breathing.; P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.; P314 - Get medical advice/attention if you feel unwell; P332+P313 - If skin irritation 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.; P501 - Dispose of container to recycling, according to local regulations.; P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

## 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

### 3.2. Mixture

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|---|---|---|
| Xylene | CAS-No.: 1330-20-7 | 17.025 – 36.59 | Flam. Liq. 3, H226<br>Acute Tox. Not classified (Oral)<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. Not classified (Inhalation:vapour)<br>Skin Irrit. 2, H315<br>STOT SE 1, H370<br>STOT RE Not classified<br>Aquatic Chronic 2, H411 |
| ethylbenzene | CAS-No.: 100-41-4 | 10.01 – 21.0375 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation:vapour), H332<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |
| Lead Sulfochromate | - | 0.1 – 12 | Carc. 1B, H350<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Lead chromate molybdate sulfate red/scarlet | - | 0.1 – 12 | Carc. 1B, H350<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene | CAS-No.: 128601-23-0 | 5 – 10 | Flam. Liq. 3, H226<br>Acute Tox. 3 (Inhalation:vapour), H331<br>STOT SE 3, H336<br>STOT SE 3, H335<br>STOT RE Not classified<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Methyl Isobutyl Ketone | CAS-No.: 108-10-1 | 5 – 10 | Flam. Liq. 2, H225<br>Acute Tox. Not classified (Dermal)<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2, H319<br>Carc. 2, H351<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Aquatic Acute Not classified<br>Aquatic Chronic Not classified |
| 2-butoxyethanol | CAS-No.: 111-76-2 | 1.2 – 3.5 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 |

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|---|---|---|
| Cumene | CAS-No.: 98-82-8 | 0.005 – 0.2 | Flam. Liq. 3, H226<br>Carc. 1B, H350<br>STOT SE 3, H335<br>STOT RE Not classified<br>Asp. Tox. 1, H304<br>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 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.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Eye irritation.

Symptoms/effects after ingestion : Risk of lung oedema.

### 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.

#### 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 unnecessary 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. Avoid contact with skin and eyes. |
| 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 | : | Store always 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 |

| 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/m³ |
| | 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/m³ |
| | 50 ppm |
| OEL STEL | 435 mg/m³ |
| | 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 |

| Cumene (98-82-8) | |
|---|---|
| **South Africa - Occupational Exposure Limits (Restricted Limits)** | |
| Local name | Cumene [isopropyl benzene] |
| RHCA - STEL/C | 100 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 | Cumene (Isopropyl benzene) |

| Cumene (98-82-8) | |
|---|---|
| OEL TWA | 120 mg/m³ |
| | 25 ppm |
| OEL STEL | 370 mg/m³ |
| | 75 ppm |
| Remark | Sk (Danger of cutaneous absorption) |
| Regulatory reference | Government Notice No. R 904 |

| 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/m³ |
| | 100 ppm |
| OEL STEL | 545 mg/m³ |
| | 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 |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| **South Africa - Occupational Exposure Limits (Restricted Limits)** | |
| Local name | Methyl isobutyl ketone [MIBK, hexone] |
| OEL eight hour TWA | 150 ppm |
| 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 | Methyl isobutyl ketone [MIBK] (Hexone; Isobutyl methyl ketone; 4-Methylpentan-2-one) |
| OEL TWA | 82 mg/m³ |
| | 20 ppm |
| OEL STEL | 205 mg/m³ |
| | 50 ppm |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| Remark | Sk (Danger of cutaneous absorption) |
| Regulatory reference | Government Notice No. R 904 |
| **South Africa - Biological limit values** | |
| Local name | Methyl isobutyl ketone (MIBK) |
| BEI | 1 mg/l Parameter: Methyl isobutyl ketone (MIBK) - Medium: urine - Sampling time: End of shift |
| Regulatory reference | Government Notice No. R. 280, 2021 |

### 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 : Liquid.
Colour : Various colours
Odour : Aromatic solvent like odour
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
Relative density : > 0.86 – < 0.88 XYLENE @ 20 - 25 °C : ECHA
Relative density of saturated gas/air mixture : No data available
Density : > 0.86 – < 0.88 g/cm³ 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 | : | ≈ 0.74 mm²/s XYLENE : ECHA |
| Viscosity, dynamic | : | > 0.581 – < 0.76 mPa·s XYLENE : ECHA |
| 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 | : | Liquid. |

### 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) | : | Not classified |
| Acute toxicity (inhalation) | : | Inhalation:dust,mist: Harmful if inhaled. |

| Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome | |
|---|---|
| ATE ZA (dust, mist) | 3.22 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 | ≈ 435 mg/kg bodyweight ECHA |
| 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 |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (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 |

| ethylbenzene (100-41-4) | |
|---|---|
| LD50 oral rat | ≈ 3500 mg/kg bodyweight Animal: rat |
| LD50 dermal rat | ≥ 3500 mg/kg bodyweight ECHA |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| LD50 oral rat | ≥ 2080 mg/kg Source: Supplier SDS |
| LD50 dermal rabbit | ≥ 16000 mg/kg Source: Supplier SDS |
| LC50 Inhalation - Rat [ppm] | ≥ 2000 ppm/4h Source: Supplier SDS |

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer (Inhalation).

Reproductive toxicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Causes damage to organs (central nervous system) (Inhalation).

| Xylene (1330-20-7) | |
|---|---|
| LOAEL (oral, rat) | ≈ 150 mg/kg bodyweight XYLENE : ECHA |
| 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). |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (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. |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : May cause damage to organs (hearing organs) through prolonged or repeated exposure (Inhalation).

| 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) |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (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 |
| 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 |

| ethylbenzene (100-41-4) | |
|---|---|
| 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). |

| Lead Sulfochromate | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| Lead chromate molybdate sulfate red/scarlet | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| NOAEL (oral, rat, 28 days) | ≈ 250 mg/kg bodyweight/day |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : May be fatal if swallowed and enters airways.

| Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome | |
|---|---|
| Viscosity, kinematic | ≈ 0.74 mm²/s XYLENE : ECHA |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.

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 |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (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 |

| ethylbenzene (100-41-4) | |
|---|---|
| LC50 - Fish [1] | 5.1 mg/l Test organisms (species): Menidia menidia |
| EC50 72h - Algae [1] | 5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |

| ethylbenzene (100-41-4) | |
|---|---|
| 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' |
| NOEC chronic algae | ≈ 3.4 mg/l Fresh water algae : ECHA |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| LC50 - Fish [1] | ≥ 505 mg/l Species:  Fathead minnow; Source:  Supplier SDS |
| LOEC (acute) | ≈ 179 mg/l Source:  ECHA |
| LOEC (chronic) | > 64 – < 156 mg/l 21 Days; Source:  ECHA |
| NOEC (chronic) | ≈ 200 mg/l 48 Hrs, Source:  ECHA |
| NOEC chronic fish | ≈ 179 mg/l Source:  ECHA |

## 12.2. Persistence and degradability

| Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome | |
|---|---|
| Persistence and degradability | Rapidly degradable |

| 2-butoxyethanol (111-76-2) | |
|---|---|
| Persistence and degradability | |

| Xylene (1330-20-7) | |
|---|---|
| Persistence and degradability | |
| Chemical oxygen demand (COD) | > 2.56 – < 2.91 g $O_2$/g substance |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (128601-23-0) | |
|---|---|
| Persistence and degradability | |

| Cumene (98-82-8) | |
|---|---|
| Persistence and degradability | |

| ethylbenzene (100-41-4) | |
|---|---|
| Persistence and degradability | |

| Lead Sulfochromate | |
|---|---|
| Persistence and degradability | |

| Lead chromate molybdate sulfate red/scarlet | |
|---|---|
| Persistence and degradability | |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| Persistence and degradability | |

## 12.3. Bioaccumulative potential

| Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome | |
|---|---|
| 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 |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (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 |

| ethylbenzene (100-41-4) | |
|---|---|
| Partition coefficient n-octanol/water (Log Kow) | > 3.03 – < 3.6 @ 20 °C and pH 7.84 : ECHA |

| Methyl Isobutyl Ketone (108-10-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | ≈ 1.2 Source: Supplier SDS |
| Partition coefficient n-octanol/water (Log Kow) | ≈ 1.3 20 °C and pH 6.7 ;Source: ECHA |

### 12.4. Mobility in soil

| Dura - Heavy Duty Polyurethane - Colours containing PR104 Scarlet Chrome and or PY34 Lemon or Middle Chrome | |
|---|---|
| Mobility in soil | No additional information available |

| Xylene (1330-20-7) | |
|---|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | ≈ 537 XYLENE: @ 20 °C : ECHA |

| 1,3,5-trimethylbenzene; 1-ethyl-4-methylbenzene; prop-1-en-2-ylbenzene; propan-2-ylbenzene; propylbenzene (128601-23-0) | |
|---|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | > 358.67 – < 8544.76 L/kg @ 20 °C;Source: ECHA |

| ethylbenzene (100-41-4) | |
|---|---|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | ≈ 1331 at 20°C : ECHA |

### 12.5. Other adverse effects

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

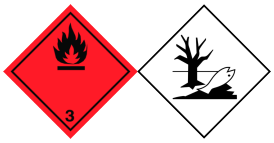
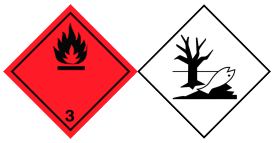
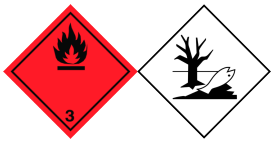
## SECTION 13: Disposal Considerations

### 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.
Additional information : Flammable vapours may accumulate in the container. Do not re-use empty containers.

## SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA |
|---|---|---|
| **14.1. UN number** | | |
| 1307 | 1307 | 1307 |
| **14.2. UN Proper Shipping Name** | | |
| XYLENES | XYLENES | Xylenes |
| **Transport document description** | | |
| Not applicable | UN 1307 XYLENES, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (23°C c.c.) | UN 1307 Xylenes, 3, III, ENVIRONMENTALLY HAZARDOUS |
| **14.3. Transport hazard class(es)** | | |
| 3 | 3 | 3 |
|  |  |  |
| **14.4. Packing group, if applicable** | | |
| III | III | III |
| **14.5. Environmental hazards** | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes<br>Marine pollutant : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | |

### 14.6. Special precautions for user

**SANS**

| | | |
|---|---|---|
| Special provisions (SANS) | : | 223 |
| Limited quantities (SANS) | : | 5 L |
| Limited quantities (SANS) | : | 5 L |
| Packagings, large packagings and IBCs Packing instructions (SANS) | : | P001, IBC03, LP01 |
| Portable tank and bulk containers instructions (SANS) | : | T2 |
| Portable tank and bulk container special provisions (SANS) | : | TP1 |

**IMDG**

| | | |
|---|---|---|
| Special provisions (IMDG) | : | 223 |
| Limited quantities (IMDG) | : | 5 L |
| Excepted quantities (IMDG) | : | E1 |
| Packing instructions (IMDG) | : | P001, LP01 |
| IBC packing instructions (IMDG) | : | IBC03 |
| Tank instructions (IMDG) | : | T2 |
| Tank special provisions (IMDG) | : | TP1 |
| EmS-No. (Fire) | : | F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS |
| EmS-No. (Spillage) | : | S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS |
| Stowage category (IMDG) | : | A |
| Flash point (IMDG) | : | 23°C to 30°C c.c. |
| Properties and observations (IMDG) | : | Colourless liquids. Flashpoint: 23°C to 30°C c.c. Explosive limits: 1.1% to 7%. Immiscible with water. |

**IATA**

| | | |
|---|---|---|
| PCA Excepted quantities (IATA) | : | E1 |
| PCA Limited quantities (IATA) | : | Y344 |
| PCA limited quantity max net quantity (IATA) | : | 10L |
| PCA packing instructions (IATA) | : | 355 |
| PCA max net quantity (IATA) | : | 60L |
| CAO packing instructions (IATA) | : | 366 |
| CAO max net quantity (IATA) | : | 220L |
| Special provisions (IATA) | : | A3 |
| ERG code (IATA) | : | 3L |

### 14.7. Transport in bulk according to IMO instructions

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

#### 15.1.1. OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

| Prohibited Hazardous Chemical Agents | |
|---|---|
| Lead Sulfochromate | 1344-37-2 |

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

No additional information available

## SECTION 16: Other information

| | | |
|---|---|---|
| Issue date | : | 13/07/2023 |
| Revision date | : | 13/06/2025 |
| Supersedes | : | 13/07/2023 |

| Section | Changed item | Comments |
|---|---|---|
| | Hazard statements (GHS ZA) | **Modified** |
| | ATE ZA (Dermal) | **Removed** |
| | ATE ZA (dust, mist) | **Modified** |
| | Precautionary statements (GHS ZA) | **Modified** |
| 1.1 | Trade name | **Modified** |
| 1.1 | Name | **Modified** |
| 1.2 | Recommended use | **Added** |
| 2.1 | Adverse physicochemical, human health and environmental effects | **Modified** |
| 2.1 | Classification (GHS UN) | **Modified** |
| 3 | Composition/information on ingredients | **Modified** |
| 4 | First-aid measures general | **Modified** |
| 4 | First-aid measures after ingestion | **Modified** |
| 4 | Symptoms/effects after ingestion | **Added** |
| 4 | Symptoms/effects after inhalation | **Added** |
| 5.1 | Unsuitable extinguishing media | **Added** |

| Section | Changed item | Comments |
|---|---|---|
| 5.2 | Explosion hazard | **Added** |
| 5.3 | Firefighting instructions | **Added** |
| 6 | For containment | **Modified** |
| 6 | Emergency procedures | **Added** |
| 6 | General measures | **Added** |
| 6 | Protective equipment | **Added** |
| 7.1 | Precautions for safe handling | **Modified** |
| 7.1 | Additional hazards when processed | **Added** |
| 7.2 | Packaging materials | **Added** |
| 8.2 | Personal protective equipment | **Added** |
| 9 | Density | **Added** |
| 9 | Vapour pressure | **Added** |
| 9 | Auto-ignition temperature | **Added** |
| 9 | Flash point | **Added** |
| 9 | Boiling point | **Added** |
| 9 | Freezing point | **Added** |
| 9 | Solubility | **Added** |
| 9 | Viscosity, kinematic | **Added** |
| 9 | Viscosity, dynamic | **Modified** |
| 9 | Relative density | **Modified** |
| 13 | Additional information | **Modified** |
| 13 | Product/Packaging disposal recommendations | **Added** |
| 13 | Sewage disposal recommendations | **Added** |
| 13 | Regional waste regulation | **Added** |

| Full text of H-statements: | |
|---|---|
| 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 |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |

| Full text of H-statements: | |
|---|---|
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging 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 |
| H410 | Very toxic to aquatic life with long lasting effects |
| 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.