

#### Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8 Issue date: 7/13/2023 Version: 1.0

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

# Product form : Mixture Trade name : Dura - Heavy Duty Polyurethane Catalyst Type of product : Coatings Product code : HDPUCAT Product group : Trade product

#### 1.2. Other means of identification

No additional information available

1.1. GHS product identifier

1.3. Recommended use of the chemical and restrictions on use
--

Use of the substance/mixture

: For use with Heavy Duty Polyurethane Enamel as per instructions

#### 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
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Specific target organ toxicity – Repeated exposure, Category 2	H373
Full text of H-statements: see section 16	
Adverse physicochemical, human health and : Highly flam	mable liqui
environmental effects repeated ex	kposure,Ha

Highly flammable liquid and vapour,May cause damage to organs through prolonged or repeated exposure,Harmful if inhaled,Causes skin irritation,May cause an allergic skin reaction,May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 2.2. GHS label elements, including precautionary statements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)

Signal word (GHS-ZA) Hazardous ingredients Hazard statements (GHS ZA)



Hexamethylene diisocyanate; ethylbenzene
 H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

	H317 - May cause an allergic skin reaction
	H332 - Harmful if inhaled
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
	H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (Inhalation)
Precautionary statements (GHS ZA)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
	No smoking.
	P103 - Read carefully and follow all instructions.
	P102 - Keep out of reach of children.
	P261 - Avoid breathing dust, mist, spray, vapours.
	P280 - Wear eye protection, protective clothing, protective gloves.
	P319 - Get medical help if you feel unwell.
	P501 - Dispose of container to recycling.

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	21.4 – 43.8	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. Not classified (Inhalation:dust,mist) Skin Irrit. 2, H315 STOT RE Not classified Aquatic Chronic Not classified
ethylbenzene	CAS-No.: 100-41-4	2 - 8	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304
Hexamethylene diisocyanate	CAS-No.: 822-06-0	0.045 – 0.195	Flam. Liq. Not classified Acute Tox. Not classified (Dermal) Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

SECTION 4: First aid measures		
4.1. Description of necessary first aid measures		
First-aid measures general	: Call a poison center or a doctor if you feel unwell.	
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	<ul> <li>Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>	

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

First-aid measures after eye contact First-aid measures after ingestion	<ul><li>Rinse eyes with water as a precaution.</li><li>Call a poison center or a doctor if you feel unwell.</li></ul>	
4.2. Most important symptoms/effect, acute and delayed		
Symptoms/effects after inhalation Symptoms/effects after skin contact	<ul><li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li><li>Irritation. May cause an allergic skin reaction.</li></ul>	

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	g media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Specific hazards arising from the chemical		
Fire hazard Hazardous decomposition products in case of fire	<ul><li>Highly flammable liquid and vapour.</li><li>Toxic fumes may be released.</li></ul>	
5.3. Special protective actions for fire-fight	ers	
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		
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.	
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".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and materials for conta	inment and cleaning up	
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	: 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. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.		
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures Storage conditions : Ground/bond container and receiving equipment.

: Store in a well-ventilated place. Keep cool. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters			
Xylene (1330-20-7)	Xylene (1330-20-7)		
South Africa - Occupational Exposure Limits (Restr	icted Limits)		
Local name	Xylene, o-, m-, p- or mixed isomers		
OEL eight hour TWA [ppm]	300 ppm		
RHCA - STEL/C [ppm]	200 ppm		
Remark	SKIN (danger of cutaneous absorption)		
Regulatory reference	Government Notice No. R. 280, 2021		
South Africa - Occupational Exposure Limits (Airbo	rne Pollutants)		
Local name	Xylene, o-, m-, p- or mixed isomers		
OEL TWA	218 mg/m <sup>3</sup>		
OEL TWA [ppm]	50 ppm		
OEL STEL	435 mg/m³		
OEL STEL [ppm]	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 [ppm]	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		
OEL TWA [ppm]	100 ppm		
OEL STEL	545 mg/m³		
OEL STEL [ppm]	125 ppm		
Regulatory reference	Government Notice No. R 904		

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

ethylbenzene (100-41-4)		
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	
8.2. Appropriate engineering controls		
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>	
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	No data available
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
рН	: 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	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Highly flammable liquid and vapour.
Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

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	: No data available

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 effect

Not classified Not classified Harmful if inhaled.	
3.425 mg/l/4h	
≈ 3523 mg/kg bodyweight	
12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:	
≈ 27.124 mg/l Source: ECHA	
Hexamethylene diisocyanate (822-06-0)	
> 7000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
0.124 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 111 - 140	
ethylbenzene (100-41-4)	
≈ 3500 mg/kg bodyweight Animal: rat	

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Hexamethylene diisocyanate (822-06-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (hearing organs) through prolonged or repeated exposure (Inhalation).
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, 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 through prolonged or repeated exposure.
Aspiration hazard	: Not classified

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term	<ul> <li>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</li> <li>Not classified</li> <li>Not classified</li> </ul>
(chronic) Xylene (1330-20-7)	
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
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'
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)
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'

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

12.2. Persistence and degradability		
Dura - Heavy Duty Polyurethane Catalyst		
Persistence and degradability	No additional information available	
12.3. Bioaccumulative potential		
Dura - Heavy Duty Polyurethane Catalyst		
Bioaccumulative potential	No additional information available	
12.4. Mobility in soil		
Dura - Heavy Duty Polyurethane Catalyst		
Mobility in soil	No additional information available	
12.5. Other adverse effects		
	Not classified No additional information available	

#### **SECTION 13: Disposal Considerations**

#### 13.1. Disposal methods

Waste treatment methods Additional information

: Dispose of contents/container in accordance with licensed collector's sorting instructions. : Flammable vapours may accumulate in the container.

#### **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA IMDG ΙΑΤΑ SANS 14.1. UN number 1307 1307 1307 14.2. UN Proper Shipping Name **XYLENES XYLENES Xylenes** 14.3. Transport hazard class(es) 3 3 3 14.4. Packing group, if applicable Ш Ш Ш 14.5. Environmental hazards Dangerous for the environment : No Dangerous for the environment : No Dangerous for the environment : No Marine pollutant : No No supplementary information available 14.6. Special precautions for user SANS : 223

Special provisions (SANS)

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Limited quantities (SANS)	: 5L
Limited quantities (SANS)	: 5L
Packagings, large packagings and IBCs Packing	: P001, IBC03, LP01
instructions (SANS)	
Portable tank and bulk containers instructions	: T2
(SANS)	
Portable tank and bulk container special provisions	: TP1
(SANS)	
IMDG	
Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5L
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.
	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. Safety, health and environmental regulations specific for the product in question

No additional information available

## SECTION 16: Other information

Issue date

: 13/07/2023

Full text of H-statements:	
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

## Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8

Full text of H-statements:	
H330	Fatal if inhaled
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
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure

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.