

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

1.1. GHS product identifier

Product form	: Mixture
Trade name	: Dura Paints - 2K Catalyst
Type of product	: Coatings
Product code	: 2KCATFAST
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	: For use with 2K Enamel as per instruction
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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 (inhalation:vapour) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 1B	H340
Carcinogenicity, Category 1B	H350
Reproductive toxicity, Category 1	H360
Specific target organ toxicity – single exposure, Category 1	H370
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
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, May cause drowsiness or dizziness, Harmful if inhaled, Causes skin irritation, May cause an allergic skin reaction, May cause allergy or asthma symptoms or breathing difficulties if inhaled, May be fatal if swallowed and enters airways, Toxic to aquatic life, 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

: Hexamethylene diisocyanate, oligomers; Xylene; Hexamethylene diisocyanate; hexane; Toluene; Ethylglycol Acetate; Naphtha (petroleum), hydrotreated light; Cyclohexane; Butanone

Hazard statements (GHS ZA)

: H225 - Highly flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects (Dermal, Inhalation, Oral)
H350 - May cause cancer (Dermal, Inhalation, Oral)
H360 - May damage fertility. Suspected of damaging the unborn child. (Dermal, Inhalation, Oral)
H370 - Causes damage to organs (central nervous system, liver, kidneys, Skin) (Dermal, Inhalation, Oral)
H373 - May cause damage to organs (central nervous system, hearing sense) through prolonged or repeated exposure (Inhalation, Dermal)
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.
P263 - Avoid contact during pregnancy and while nursing.
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 according to local regulations.
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.; P263 - Avoid contact during pregnancy and while nursing.; 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 according to local regulations.

P-statements for label (GHS-ZA)

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
Hexamethylene diisocyanate, oligomers	CAS-No.: 28182-81-2	15 – 30	Skin Sens. 1, H317
Toluene	CAS-No.: 108-88-3	3 – 25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
Xylene	CAS-No.: 1330-20-7	3.9 – 19.8	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
Naphtha (petroleum), hydrotreated light	-	0.9 – 15	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 3 (Inhalation:vapour), H331 Muta. 1B, H340 Carc. 1B, H350 STOT RE Not classified Asp. Tox. 1, H304
Ethylcyclo Acetate	CAS-No.: 111-15-9	1 – 10	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
Cyclohexane	CAS-No.: 110-82-7	0.3 – 5	Flam. Liq. 2, H225 Acute Tox. Not classified (Oral) Acute Tox. Not classified (Inhalation:vapour) Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Butanone	CAS-No.: 78-93-3	0.995 – 4.975	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Acute Not classified Aquatic Chronic Not classified

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Name	Product identifier	%	Classification according to the United Nations GHS
hexane	CAS-No.: 110-54-3	0.3 – 2.5	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Hexamethylene diisocyanate	CAS-No.: 822-06-0	0.02 – 0.12	Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 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 STOT RE Not classified Aquatic Chronic Not classified

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 or rash 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-aiders	: First aid workers will be equipped with suitable personal protective equipment.

4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
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.

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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. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. 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.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

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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

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
Hexamethylene diisocyanate (822-06-0)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Hexamethylene diisocyanate [HDI]
RHCA - STEL/C	0.01 ppm
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Biological limit values	
Local name	1,6-Hexamethylene diisocyanate
BEI	15 µg/g creatinine Parameter: 1,6-Hexamethylene diamine - Medium: urine - Sampling time: End of shift - Notations: Ns (non-specific)
Regulatory reference	Government Notice No. R. 280, 2021
hexane (110-54-3)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	n-Hexane
RHCA - STEL/C	100 ppm

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hexane (110-54-3)	
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	n-Hexane
OEL TWA	70 mg/m ³
	20 ppm
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	n-Hexane
BEI	0.4 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: End of shift at end of workweek
Regulatory reference	Government Notice No. R. 280, 2021
Toluene (108-88-3)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Toluene
OEL eight hour TWA	150 ppm
	560 mg/m ³
RHCA - STEL/C	40 ppm
	50 ppm
	188 mg/m ³
Remark	SKIN (danger of cutaneous absorption) Sk
Regulatory reference	Government Notice No. R. 280, 2021 Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Toluene
OEL TWA	188 mg/m ³
	50 ppm
OEL STEL	560 mg/m ³
	150 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	Toluene
BEI	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift 0.3 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: End of shift - Notations: B (background)
Regulatory reference	Government Notice No. R. 280, 2021

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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
Cyclohexane (110-82-7)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Cyclohexane
RHCA - STEL/C	200 ppm
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Cyclohexane
OEL TWA	340 mg/m ³
	100 ppm
OEL STEL	1030 mg/m ³
	300 ppm
Regulatory reference	Government Notice No. R 904
Butanone (78-93-3)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Methyl ethyl ketone (MEK) (Butan-2-one)
OEL eight hour TWA	300 ppm
	885 mg/m ³
RHCA - STEL/C	200 ppm
	590 mg/m ³
Regulatory reference	Government Notice. R: 1179
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Methyl ethyl ketone [MEK] (Butan-2-one)
OEL TWA	600 mg/m ³
	200 ppm

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Butanone (78-93-3)	
OEL STEL	900 mg/m ³
	300 ppm
Remark	Sk (Danger of cutaneous absorption)
Regulatory reference	Government Notice No. R 904
South Africa - Biological limit values	
Local name	Methyl Ethyl Ketone (MEK)
BEI	2 mg/l Parameter: Methyl ethyl ketone (MEK) - 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	: 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	: Clear, colorless liquid.
Colour	: Colourless
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	: No data available
Boiling point	: 110.6 °C Derived roem value for Toluene; Source: HSDB
Flash point	: 4 °C Derived roem value for Toluene;Source: HSDB
Auto-ignition temperature	: 480 °C Derived roem value for Toluene; Source: HSDB
Decomposition temperature	: No data available
Flammability	: Highly flammable liquid and vapour.
Vapour pressure	: 28.4 mm Hg Derived roem value for Toluene; at 25°C Source: HSDB
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: ≈ 0.8623 Derived roem value for Toluene; Source: HSDB
Relative density of saturated gas/air mixture	: No data available
Density	: No data available

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Relative gas density	: No data available
Solubility	: insoluble in water. soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Pow)	: 2.73 Derived roem value for Toluene; Source: HSDB
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: $\approx 0.45 \text{ mm}^2/\text{s}$ Derived roem value for Toluene; at 25 deg. C at atmospheric pressure; Source: Journal of Chemical & Engineering Data
Viscosity, dynamic	: 0.56 cP Derived roem value for Toluene; Source: HSDB
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: 1 – 7.8 % Derived from value for Toluene; Source: GESTIS
Physical state	: Liquid
Appearance	: Clear, colorless 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:vapour: Harmful if inhaled.

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ATE ZA (vapours)	14.23 mg/l/4h
Hexamethylene diisocyanate, oligomers (28182-81-2)	
LD50 oral rat	> 2500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:

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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
Hexamethylene diisocyanate (822-06-0)	
LD50 oral rat	≈ 746 mg/kg bodyweight Source: ECHA
LD50 dermal rat	> 7000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≈ 599 mg/kg Duration 24hr; Source: Supplier SDS
LC50 Inhalation - Rat	0.124 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 111 - 140
hexane (110-54-3)	
LD50 oral rat	≈ 1600 mg/kg bodyweight Source : ECHA
LD50 dermal rabbit	> 3350 mg/kg bodyweight Source : ECHA
LC50 Inhalation - Rat	≥ 17.6 mg/l Source: ECHA
Toluene (108-88-3)	
LD50 oral rat	5580 mg/kg Source: ECHA
LD50 dermal rabbit	> 5000 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 25.7 – < 30 mg/l Source: ECHA
LC50 Inhalation - Rat (Vapours)	> 20 mg/l Source: ECHA
Ethylcycloacetate (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
Naphtha (petroleum), hydrotreated light	
LD50 oral rat	≥ 5000 mg/kg bodyweight ECHA
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	≥ 2000 mg/kg bodyweight ECHA
LC50 Inhalation - Rat	> 5.61 mg/l ECHA
Cyclohexane (110-82-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 32.88 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects (Dermal, Inhalation, Oral).
Carcinogenicity	: May cause cancer (Dermal, Inhalation, Oral).
Toluene (108-88-3)	
IARC group	3 - Not classifiable

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Reproductive toxicity : May damage fertility. Suspected of damaging the unborn child. (Dermal, Inhalation, Oral).

Ethylglycol Acetate (111-15-9)

LOAEL (animal/male, F0/P)	≥ 1000 mg/kg Mouse; Testicular atrophy; Source: Supplier SDS
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Reproductive toxicity : May damage fertility. Suspected of damaging the unborn child. (Dermal, Inhalation, Oral).

STOT-single exposure : Causes damage to organs (central nervous system, liver, kidneys, Skin) (Dermal, Inhalation, Oral). May cause drowsiness or dizziness.

Xylene (1330-20-7)

LOAEL (oral, rat)	≈ 150 mg/kg bodyweight XYLENE : ECHA
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NOAEL (oral, rat)	≈ 250 mg/kg bodyweight XYLENE : ECHA
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NOAEC (inhalation, rat, gas)	> 450 – < 1800 ppmv/4h XYLENE : 12H : ECHA
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STOT-single exposure	Causes damage to organs (central nervous system) (Inhalation).
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Hexamethylene diisocyanate (822-06-0)

STOT-single exposure	May cause respiratory irritation.
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hexane (110-54-3)

STOT-single exposure	May cause drowsiness or dizziness.
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Toluene (108-88-3)

STOT-single exposure	May cause drowsiness or dizziness.
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Cyclohexane (110-82-7)

STOT-single exposure	May cause drowsiness or dizziness.
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Butanone (78-93-3)

NOAEC (inhalation, rat, gas)	≈ 5041 ppm Source: ECHA
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STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : May cause damage to organs (central nervous system, hearing sense) through prolonged or repeated exposure (Inhalation, Dermal).

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)
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Hexamethylene diisocyanate (822-06-0)

LOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight/day Duration: 2 weeks; Source: Supplier SDS
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NOAEC (inhalation, rat, vapour, 28 days)	≈ 0.035 mg/l Duration: 2years; Source: Supplier SDS
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hexane (110-54-3)

LOAEL (oral, rat, 90 days)	≥ 200 mg/kg bodyweight/day Source : ECHA
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NOAEL (oral, rat, 28 days)	≥ 40 mg/kg bodyweight/day Source : ECHA
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STOT-repeated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).
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Toluene (108-88-3)

LOAEL (oral, rat, 90 days)	≈ 1250 mg/kg bodyweight/day Source: ECHA
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LOAEC (inhalation, rat, gas, 90 days)	≈ 2.261 mg/l Source: ECHA
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NOAEL (oral, rat, 28 days)	≥ 625 mg/kg bodyweight/day
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NOAEC (inhalation, rat, 28 days)	> 2.261 – < 4.71 mg/l Source : ECHA
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NOAEL (oral, rat, 90 days)	≈ 625 mg/kg bodyweight/day Rat
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Toluene (108-88-3)	
NOAEC (inhalation, rat, gas, 90 days)	1.131 – 2.355 mg/l Air, Source: ECHA
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
STOT-repeated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).

Naphtha (petroleum), hydrotreated light	
LOAEC (inhalation, rat, vapour, 90 days)	16.6 mg/l air Animal: rat, Animal sex: male
NOAEC (inhalation, rat, 28 days)	≈ 1.402 mg/l ECHA
NOAEC (inhalation, rat, vapour, 90 days)	3.3 mg/l air Animal: rat, Animal sex: male

Cyclohexane (110-82-7)	
NOAEC (inhalation, rat, gas, 28 days)	> 500 – < 7000 ppmv/6h/day

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

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Viscosity, kinematic	≈ 0.45 mm ² /s Derived roem value for Toluene; at 25 deg. C at atmospheric pressure; Source: Journal of Chemical & Engineering Data

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Hexamethylene diisocyanate, oligomers (28182-81-2)	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): other:

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

Hexamethylene diisocyanate (822-06-0)	
LC50 - Fish [1]	≥ 82.8 mg/l Method EU C.1; Source : Supplier SDS
EC50 - Crustacea [1]	≥ 89.1 mg/l Species: Daphnia; Method EU C.2; Source : Supplier SDS
EC50 72h - Algae [1]	> 77.4 mg/l Method EU C.3; Source : Supplier SDS & ECHA
NOEC chronic algae	≈ 4.9 mg/l Duration 72hrs; Source : ECHA

hexane (110-54-3)	
EC50 72h - Algae [1]	≈ 9.285 mg/l Source: ECHA

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Toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Source: ECHA
EC50 - Crustacea [1]	3.78 mg/l Source: ECHA
EC50 72h - Algae [1]	≥ 134 mg/l Source: ECHA
ErC50 algae	≥ 84 mg/l Source : ECHA
LOEC (chronic)	≥ 2.76 mg/l 7 Days - Source : ECHA
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic fish	≥ 1.39 mg/l Source : ECHA
NOEC chronic crustacea	≈ 0.74 mg/l Source: ECHA
NOEC chronic algae	≥ 10 mg/l Sourc: 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
Naphtha (petroleum), hydrotreated light	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Cyclohexane (110-82-7)	
LC50 - Fish [1]	≥ 4.53 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	≥ 0.9 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	≥ 4.42 mg/l Fresh water algae - Source : ECHA
NOEC chronic algae	≥ 0.925 mg/l freshwater algae - Source : ECHA
Butanone (78-93-3)	
LC50 - Fish [1]	2973 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1220 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	1240 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC chronic algae	≈ 566 mg/l Fresh water algae; Source: ECHA
12.2. Persistence and degradability	
Dura Paints - 2K Catalyst	
Persistence and degradability	Rapidly degradable
Hexamethylene diisocyanate, oligomers (28182-81-2)	
Persistence and degradability	
Xylene (1330-20-7)	
Persistence and degradability	
Chemical oxygen demand (COD)	> 2.56 – < 2.91 g O ₂ /g substance
Hexamethylene diisocyanate (822-06-0)	
Persistence and degradability	

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hexane (110-54-3)	
Persistence and degradability	
Toluene (108-88-3)	
Persistence and degradability	
Ethylglycol Acetate (111-15-9)	
Persistence and degradability	
Naphtha (petroleum), hydrotreated light	
Persistence and degradability	
Cyclohexane (110-82-7)	
Persistence and degradability	
Butanone (78-93-3)	
Persistence and degradability	

12.3. Bioaccumulative potential

Dura Paints - 2K Catalyst	
Partition coefficient n-octanol/water (Log Kow)	2.73 Derived roem value for Toluene; Source: HSDB
Bioaccumulative potential	No additional information available
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
Hexamethylene diisocyanate (822-06-0)	
Partition coefficient n-octanol/water (Log Kow)	≈ 3.2 @ 20 °C; Source: ECHA
hexane (110-54-3)	
Partition coefficient n-octanol/water (Log Kow)	> 3.42 – < 5.8 At 20 °C and pH 7 - Source: ECHA
Toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Kow)	2.73 Source: HSDB
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.
Cyclohexane (110-82-7)	
Bioconcentration factor (BCF REACH)	≈ 167 l/kg ww Source : ECHA
Partition coefficient n-octanol/water (Log Pow)	≈ 3.44 @ 20 °C Source : ECHA
Partition coefficient n-octanol/water (Log Kow)	≈ 3.44 @ 25 °C and pH 7 Source : ECHA
Butanone (78-93-3)	
Partition coefficient n-octanol/water (Log Kow)	≈ 0.3 At 40 °C; Source: ECHA

12.4. Mobility in soil

Dura Paints - 2K Catalyst	
Mobility in soil	No additional information available

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According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 10

Xylene (1330-20-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≈ 537 XYLENE: @ 20 °C : ECHA
hexane (110-54-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≈ 2187.76 @ 20 °C - Source : ECHA
Toluene (108-88-3)	
Surface tension	≈ 27.73 mN/m
Cyclohexane (110-82-7)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	≈ 770 at 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			
1307	Not applicable	1307	1307
14.2. UN Proper Shipping Name			
XYLENES	Not applicable	XYLENES	Xylenes
Transport document description			
Not applicable	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	Not applicable	3	3
			
	Not applicable		

Dura Paints - 2K Catalyst

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According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 10

SANS	UN RTDG	IMDG	IATA
14.4. Packing group, if applicable			
III	Not applicable	III	III
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) : 223
Limited quantities (SANS) : 5 L
Excepted quantities (SANS) : E1
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

UN RTDG

No data available

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

Dura Paints - 2K Catalyst

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 10

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 : 11/07/2023
Revision date : 24/07/2026
Supersedes : 24/07/2026

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
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties 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
H361	Suspected of damaging fertility or the unborn child
H370	Causes damage to organs
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

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Full text of H-statements:	
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.