Dura Paints - Hydro - Paint over Rust

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 10
Issue date: 1/9/2023 Revision date: 5/11/2026 Supersedes: 5/11/2026 Version: 1.7

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

1.1. GHS product identifier

Product form	:	Mixture
Trade name	:	Dura Paints - Hydro - Paint over Rust
Type of product	:	Coatings
Product code	:	HYDROPRUSRED
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	:	Rust Converter & Primer

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

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

Specific target organ toxicity – Repeated exposure, Category 2 H373

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects	:	When product is in liquid form, hazards related to inhalation are not present, but it contains substances that could be potential hazards if caused to become airborne due to abrasive processes.

2.2. GHS label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA) :



Signal word (GHS ZA)	:	Warning
Hazardous ingredients	:	Diiron trioxide
Hazard statements (GHS ZA)	:	H373 - May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation)
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. P280 - Wear eye protection, protective clothing, protective gloves.

P-statements for label (GHS-ZA)	:	P260 - Do not breathe dusts or mists. P501 - Dispose of container to recycling, 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.; P280 - Wear eye protection, protective clothing, protective gloves.; P260 - Do not breathe dusts or mists.; P501 - Dispose of container to recycling, according to local regulations.

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

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Calcium carbonate	CAS-No.: 471-34-1	12.35 – 19	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr./Irrit. Not classified STOT RE Not classified Aquatic Chronic Not classified
Diiron trioxide	CAS-No.: 1309-37-1	5 – 10	Acute Tox. Not classified (Oral) Acute Tox. Not classified (Inhalation:dust,mist) Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 2, H411
Ethelyne Glycol (Regular)	CAS-No.: 107-21-1	0.5 – 1.5	Acute Tox. 4 (Oral), H302

SECTION 4: First aid measures

4.1. Description of necessary first aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	:	Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact	:	Rinse eyes with water as a precaution.
First-aid measures after ingestion	:	Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider	:	First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects after inhalation	:	None under normal conditions.
Symptoms/effects after skin contact	:	None under normal conditions.
Symptoms/effects after eye contact	:	None under normal conditions.
Symptoms/effects after ingestion	:	None under normal conditions.
Chronic symptoms	:	Repeated exposure to dried coating dust may cause respiratory irritation.

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 : Product is inert, non-flammable and non combustible.
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 : Ventilate spillage area. No open flames, no sparks, and no smoking. 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.

6.3. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. 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. Wear personal protective equipment. Do not breathe dust, mist, spray.
Hygiene measures : 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 : Store in a well-ventilated place. Keep container tightly closed. Ensure adequate ventilation, especially in confined areas.
Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diiron trioxide (1309-37-1)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Iron oxide fume
RHCA - STEL/C	10 mg/m³ (R: respirable fraction) [as Fe]
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Iron oxide
OEL TWA	5 mg/m³ dust and fume [as Fe]
OEL STEL	10 mg/m³ dust and fume [as Fe]
Regulatory reference	Government Notice No. R 904

Ethelyne Glycol (Regular) (107-21-1)	
South Africa - Occupational Exposure Limits (Restricted Limits)	
Local name	Ethylene glycol
OEL eight hour TWA	20 mg/m³ (H: aerosol only)
RHCA - STEL/C	50 mg/m³ (V: vapour fraction) 100 mg/m³ (V: vapour fraction)
Remark	SKIN (danger of cutaneous absorption)
Regulatory reference	Government Notice No. R. 280, 2021
South Africa - Occupational Exposure Limits (Airborne Pollutants)	
Local name	Ethylene glycol (Ethane-1,2-diol; 1,2-Dihydroxyethane)
OEL TWA	20 mg/m³
OEL STEL	40 mg/m³
Regulatory reference	Government Notice No. R 904

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

Ethane-1,2-diol (107-21-1)		
South Africa - Occupational Exposure Limits (Restricted Limits)		
Local name	Ethylene glycol	

Ethane-1,2-diol (107-21-1)		
OEL eight hour TWA	20 mg/m³ (H: aerosol only)	
RHCA - STEL/C	50 mg/m³ (V: vapour fraction) 100 mg/m³ (V: vapour fraction)	
Remark	SKIN (danger of cutaneous absorption)	
Regulatory reference	Government Notice No. R. 280, 2021	
South Africa - Occupational Exposure Limits (Airborne Pollutants)		
Local name	Ethylene glycol (Ethane-1,2-diol; 1,2-Dihydroxyethane)	
OEL TWA	20 mg/m³	
OEL STEL	40 mg/m³	
Regulatory reference	Government Notice No. R 904	

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	No data available
Colour	:	red brown
Odour	:	No data available
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	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability	:	Non flammable
Vapour pressure	:	No data available
Vapour pressure at 50°C	:	No data available
Relative vapour density at 20°C	:	No data available
Relative density	:	≈ 1.25 Standard
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	:	> 1000 – < 1200 cP Standard
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

No additional information available

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

Likely routes of exposure : Inhalation.

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Diiron trioxide (1309-37-1)	
LD50 oral	> 5000 mg/kg bodyweight Animal: , Guideline: EU Method B.1 (Acute Toxicity (Oral))
LC50 Inhalation - Rat	> 5 mg/l Source: ECHA

Calcium carbonate (471-34-1)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 3 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

Ethelyne Glycol (Regular) (107-21-1)	
LD50 oral rat	6000 – 13000 mg/kg Source: Supplier SDS
LD50 dermal rat	> 22270 mg/kg bodyweight Source: Supplier SDS
LD50 dermal rabbit	> 2270 mg/kg Source: Supplier SDS
LC50 Inhalation - Rat	> 3.95 mg/l Source: Supplier SDS
LC50 Inhalation - Rat (Vapours)	> 3.95 mg/l/4h Source: Supplier SDS

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Diiron trioxide (1309-37-1)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.2102 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
NOAEL (oral, rat, 28 days)	> 1000 mg/kg bodyweight/day Source: ECHA
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.03 mg/l air Animal: rat, Animal sex: male
STOT-repeated exposure	May cause damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).

Calcium carbonate (471-34-1)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.212 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (subchronic, oral, animal/male, 90 days)	> 1000 mg/kg bodyweight/day Source: ECHA

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not considered dangerous to the environment.
Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Not classified

Diiron trioxide (1309-37-1)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 20 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	≈ 20 mg/l Source: ECHA
NOEC chronic algae	≈ 20 mg/l Source: ECHA

Calcium carbonate (471-34-1)	
EC50 72h - Algae [1]	≈ 14 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic algae	≈ 14 mg/l Source: ECHA

Ethelyne Glycol (Regular) (107-21-1)	
LC50 - Fish [1]	≈ 51000 mg/l Source: Supplier SDS
LC50 - Fish [2]	≈ 27540 (≤ 0) mg/l Source: Supplier SDS
EC50 - Crustacea [1]	46300 – 51100 mg/l Source: Supplier SDS
EC50 72h - Algae [1]	9500 – 13000 mg/l Source: Supplier SDS
NOEC chronic fish	≈ 15.38 g/l Source: ECHA

Ethelyne Glycol (Regular) (107-21-1)	
NOEC chronic crustacea	7.5 – 15 g/l Period: 21 days; Source: ECHA
NOEC chronic algae	≈ 100 mg/l Period: 72 hours; Source: ECHA

12.2. Persistence and degradability

Dura Paints - Hydro - Paint over Rust	
Persistence and degradability	Rapidly degradable

Diiron trioxide (1309-37-1)	
Persistence and degradability	

Calcium carbonate (471-34-1)	
Persistence and degradability	

Ethelyne Glycol (Regular) (107-21-1)	
Persistence and degradability	

12.3. Bioaccumulative potential

Dura Paints - Hydro - Paint over Rust	
Bioaccumulative potential	No additional information available

Ethelyne Glycol (Regular) (107-21-1)	
Bioconcentration factor (BCF REACH)	< 100
Partition coefficient n-octanol/water (Log Kow)	≈ -1.36 Source: Supplier SDS

12.4. Mobility in soil

Dura Paints - Hydro - Paint over Rust	
Mobility in soil	No additional information available

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 : South Africa's Waste Act (Act 59 of 2008). Waste Classification and Management Regulations, 2013 (GN R634).
Waste treatment methods : In South Africa, non-toxic and non-hazardous paints are legally treated as general waste. Allow leftover paint to harden (by leaving lids off or mixing with absorbent material like sand or sawdust). Once solidified, dispose of with household refuse.
Ecological waste information : Consider the handling and disposal of the waste as defined by the product itself.

SECTION 14: Transport information

In accordance with SANS / UN RTDG / IMDG / IATA

SANS	UN RTDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			

SANS	UN RTDG	IMDG	IATA
14.2. UN Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
Transport document description			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	3	Not applicable	Not applicable
Not applicable	 Not applicable	Not applicable	Not applicable
14.4. Packing group, if applicable			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available			

14.6. Special precautions for user

SANS
No data available

UN RTDG

Special provisions (UN RTDG)	:	163, 367
Limited quantities (UN RTDG)	:	500 ml
Excepted quantities (UN RTDG)	:	E3
Packing instruction (UN RTDG)	:	P001
Portable tank and bulk container special instructions (UN RTDG)	:	T11
Portable tank and bulk container special provisions (UN RTDG)	:	TP1, TP8, TP27

IMDG
No data available

IATA
No data available

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
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

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Supersedes : 05/11/2026

Full text of H-statements:	
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
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.