

SAFETY DATA SHEET - PAINTS

UNIDOX RED OXIDE METAL PRIMER 173

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.
Issue date: 29/01/2025 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : UNIDOX RED OXIDE METAL PRIMER 173
Product code : 173

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Paint

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Witham Group
Outer Circle Road
LN2 4HL Lincoln – Lincolnshire
United Kingdom
T 01522 521192
enquiries@withamgroup.co.uk - www.withamgroup.co.uk

1.4. Emergency telephone number

Emergency number : 01522 521192 (Monday to Thursday 8.00-17.00, Friday 8.00-16.30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Flammable liquids, Category 3 H226
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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Component

Substance(s) considered as endocrine disrupting. They are either included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or are identified to have endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP	BENZOTRIAZOLE(95-14-7)
Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP	LIMESTONE(1317-65-3), Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics, RED OXIDE (1309-37-1), TRIZINC BIS(ORTHOPHOSPHATE)(7779-90-0), Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2%(64742-48-9: Naphtha (petroleum), hydrotreated heavy), METHOXY PROPOXY PROPANOL(34590-94-8), 2,6 Di-tert-p-cresol(128-37-0)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
LIMESTONE	CAS-No.: 1317-65-3 EC-No.: 215-279-6	≥ 40 – < 50	Not classified
Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics	EC-No.: 919-857-5	≥ 40 – < 50	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304
RED OXIDE	CAS-No.: 1309-37-1 EC-No.: 215-168-2	≥ 20 – < 30	Not classified
TRIZINC BIS(ORTHOPHOSPHATE)	CAS-No.: 7779-90-0 EC-No.: 231-944-3 UK Index-No.: 030-011-00-6	≥ 1 – < 5	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to GB CLP (SI 2019:720 as amended)
BENZOTRIAZOLE	CAS-No.: 95-14-7 EC-No.: 202-394-1	< 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2%	CAS-No.: 64742-48-9: Naphtha (petroleum), hydrotreated heavy EC-No.: 918-481-9	< 1	Asp. Tox. 1, H304
METHOXY PROPOXY PROPANOL	CAS-No.: 34590-94-8 EC-No.: 252-104-2	< 1	Not classified
2,6 Di-tert-p-cresol	CAS-No.: 128-37-0 EC-No.: 204-881-4	< 1	Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Comments

: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more titanium dioxide which is in the form of or incorporated into particles with an aerodynamic diameter of less than or equal to 10µm.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. Place unconscious person on their side in the recovery position and ensure breathing can take place.
First-aid measures after skin contact	: Remove affected person from source of contamination. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Continue to rinse for at least 15 minutes and get medical attention.
First-aid measures after eye contact	: Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.
First-aid measures after ingestion	: Do not induce vomiting. Obtain emergency medical attention.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Get medical attention promptly if symptoms occur after washing.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : This product is flammable.
Explosion hazard : May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Evacuate area.
Firefighting instructions : Prevent fire fighting water from entering the environment.
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing. EN 469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe vapours. Ventilate spillage area. No flames, no sparks. Eliminate all sources of ignition. See section 8 of the SDS for more information on personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.
Emergency procedures : Cover spill with non combustible material, e.g.: sand/earth.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.



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6.3. Methods and material for containment and cleaning up

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|-------------------------|--|
| For containment | : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. |
| Methods for cleaning up | : Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Absorb spilled material with sand or earth. Shovel or sweep up and put in a closed container for disposal. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-----------------------------------|---|
| Additional hazards when processed | : In use, may form flammable vapour-air mixture. |
| Precautions for safe handling | : Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not eat, drink or smoke when using this product. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

7.2. Conditions for safe storage, including any incompatibilities

- | | |
|---------------------------|---|
| Storage conditions | : Store in a well-ventilated place. Keep container tightly closed. |
| Incompatible products | : Oxidizing agent. Strong acids. Strong bases. |
| Incompatible materials | : Sources of ignition. |
| Storage temperature | : 5 – 25 °C Deg C |
| Heat and ignition sources | : Keep away from open flames, hot surfaces and sources of ignition. |

7.3. Specific end use(s)

The identified uses for this product are detailed in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values



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LIMESTONE (1317-65-3)

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA)	10 mg/m ³ GB EH40
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Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics

United Kingdom - Occupational Exposure Limits

WEL TWA (OEL TWA)	1000 mg/m ³
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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	300 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1500 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	300 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	900 mg/m ³
Long-term - systemic effects, dermal	300 mg/kg bodyweight/day

TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.5 mg/m ³
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day

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TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)	
PNEC (Water)	
PNEC aqua (freshwater)	20.6 µg/l
PNEC aqua (marine water)	6.1 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	117.8 mg/kg dwt
PNEC sediment (marine water)	56.5 mg/kg dwt
PNEC (Soil)	
PNEC soil	35.6 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 µg/l
BENZOTRIAZOLE (95-14-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.24 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	4.2 mg/m³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.12 mg/kg bodyweight/day
Long-term - systemic effects, oral	0.12 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.1 mg/m³
Long-term - systemic effects, dermal	0.12 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.0194 mg/l
PNEC aqua (marine water)	0.0194 mg/l
PNEC aqua (intermittent, freshwater)	0.158 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.2204 mg/kg dwt
PNEC sediment (marine water)	0.2204 mg/kg dwt

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BENZOTRIAZOLE (95-14-7)

PNEC (Soil)

PNEC soil	0.03 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	0.1 mg/l
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METHOXY PROPOXY PROPANOL (34590-94-8)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	283 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	308 mg/m ³
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DNEL/DMEL (General population)

Long-term - systemic effects, oral	36 mg/kg bodyweight/day
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Long-term - systemic effects, inhalation	37.2 mg/m ³
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Long-term - systemic effects, dermal	121 mg/kg bodyweight/day
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PNEC (Water)

PNEC aqua (freshwater)	19 mg/l
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PNEC aqua (marine water)	1.9 mg/l
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PNEC aqua (intermittent, freshwater)	190 mg/l
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PNEC (Sediment)

PNEC sediment (freshwater)	70.2 mg/kg dwt
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PNEC sediment (marine water)	7.02 mg/kg dwt
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PNEC (Soil)

PNEC soil	2.74 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	4168 mg/l
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2,6 Di-tert-p-cresol (128-37-0)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day
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2,6 Di-tert-p-cresol (128-37-0)	
Long-term - systemic effects, inhalation	1.76 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.435 mg/m³
Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.199 µg/l
PNEC aqua (marine water)	0.0199 µg/l
PNEC aqua (intermittent, freshwater)	1.99 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.45819 mg/kg dwt
PNEC sediment (marine water)	0.04582 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0539 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	16.67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	0.017 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Protective goggles (EN 166)

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Hand protection:

Protective gloves against chemicals (EN 374)

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard

8.2.2.3. Respiratory protection

Respiratory protection:

Wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Coloured liquid.
Colour	: Red-brown.
Odour	: Hydrocarbon.
Odour threshold	: Not available

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pH	: Technically not feasible.
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flash point	: > 32 °C Setaflash closed cup.
Explosive limits	: Not available
Vapour pressure	: 3.11 mm Hg 20 Deg C
Vapour pressure at 50°C	: Not available
Relative vapour density at 20°C	: Not available
Relative density	: Not available
Density	: Not available
Solubility	: Material insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity, kinematic	: 3 – 3.2 Poise at 20 Deg C
Explosive properties	: Not available

9.2. Other information

VOC content	: 430 g/l
Particle characteristics	: Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Avoid open fire or flames. Avoid formation of vapours. No flames, no sparks. Eliminate all sources of ignition. No smoking.

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. May liberate toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≥ 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

RED OXIDE (1309-37-1)

LD50 oral	> 5000 mg/kg bodyweight Animal: , Guideline: EU Method B.1 (Acute Toxicity (Oral))
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TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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BENZOTRIAZOLE (95-14-7)

LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% (64742-48-9: Naphtha (petroleum), hydrotreated heavy)

LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≥ 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

METHOXY PROPOXY PROPANOL (34590-94-8)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
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METHOXY PROPOXY PROPANOL (34590-94-8)

LD50 dermal rat	> 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	9510 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

2,6 Di-tert-p-cresol (128-37-0)

LD50 oral rat	> 6000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Dust/Mist)	> 2 mg/l Source: OSHRI GLP toxicity test

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Technically not feasible.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% (64742-48-9: Naphtha (petroleum), hydrotreated heavy)

pH	Not applicable.
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Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Technically not feasible.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% (64742-48-9: Naphtha (petroleum), hydrotreated heavy)

pH	Not applicable.
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Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

2,6 Di-tert-p-cresol (128-37-0)

NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure : May cause drowsiness or dizziness.

Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

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RED OXIDE (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)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	≥ 0.03 mg/l air Animal: rat, Animal sex: male

TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)

LOAEL (oral, rat, 90 days)	53.8 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

METHOXY PROPOXY PROPANOL (34590-94-8)

NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: other:
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	3 – 3.2 Poise at 20 Deg C
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Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics

Viscosity, kinematic	1.33 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% (64742-48-9: Naphtha (petroleum), hydrotreated heavy)

Viscosity, kinematic	1.8 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
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Other information

Endocrine disrupting properties

No additional information available

Other information

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

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

RED OXIDE (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)

BENZOTRIAZOLE (95-14-7)

LC50 - Fish [1]	55 mg/l Test organisms (species): Cyprinodon variegatus
LC50 - Fish [2]	180 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	137 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

METHOXY PROPOXY PROPANOL (34590-94-8)

LC50 - Fish [1]	> 1000 mg/l Test organisms (species): Poecilia reticulata
EC50 - Other aquatic organisms [1]	1930 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 969 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
NOEC (chronic)	≥ 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'

2,6 Di-tert-p-cresol (128-37-0)

LC50 - Fish [1]	> 0.57 mg/l Source: EHCA
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2,6 Di-tert-p-cresol (128-37-0)

EC50 - Crustacea [1]	0.48 mg/l Source: ECHA
EC50 72h - Algae [1]	> 0.4 mg/l Source: ECHA
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.023 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

UNIDOX RED OXIDE METAL PRIMER 173

Persistence and degradability	The product is not expected to be biodegradable.
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LIMESTONE (1317-65-3)

Persistence and degradability	Not rapidly degradable
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Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics

Persistence and degradability	Not rapidly degradable
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RED OXIDE (1309-37-1)

Persistence and degradability	Not rapidly degradable
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TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)

Persistence and degradability	Not rapidly degradable
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BENZOTRIAZOLE (95-14-7)

Persistence and degradability	Not rapidly degradable
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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% (64742-48-9: Naphtha (petroleum), hydrotreated heavy)

Persistence and degradability	Not rapidly degradable
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METHOXY PROPOXY PROPANOL (34590-94-8)

Persistence and degradability	Not rapidly degradable
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2,6 Di-tert-p-cresol (128-37-0)

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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2,6 Di-tert-p-cresol (128-37-0)

Partition coefficient n-octanol/water (Log Pow)	5.1 Source: HSDB
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12.4. Mobility in soil

UNIDOX RED OXIDE METAL PRIMER 173

Ecology - soil	The product contains volatile organic compounds(voc) which will evaporate easily from all surfaces.
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12.5. Results of PBT and vPvB assessment

Component	
LIMESTONE (1317-65-3)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
Hydrocarbons, C9-C11, n alkanes, isoalkanes, cyclics <2% Aromatics	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
RED OXIDE (1309-37-1)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
TRIZINC BIS(ORTHOPHOSPHATE) (7779-90-0)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
BENZOTRIAZOLE (95-14-7)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII

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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

Component

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% (64742-48-9: Naphtha (petroleum), hydrotreated heavy)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
METHOXY PROPOXY PROPANOL (34590-94-8)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII
2,6 Di-tert-p-cresol (128-37-0)	This product does not contain substances at $\geq 0.1\%$ that meet the PBT criteria of UK REACH regulation, annex XIII This product does not contain substances at $\geq 0.1\%$ that meet the vPvB criteria of UK REACH regulation, annex XIII

12.6. Other adverse effects

UNIDOX RED OXIDE METAL PRIMER 173

Other information	The product contains volatile organic compounds(vos's) which have a photochemical ozone creation potential.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden. Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information	: Avoid release to the environment.
European List of Waste (LoW, EC 2000/532)	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances 15 01 02 - plastic packaging 15 01 04 - metallic packaging

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Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

HP Code

: HP3 - "Flammable:"

- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
- flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
- flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
- water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1263	UN 1263	UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name				
PAINT (PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound))	PAINT (PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound))	Paint (PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound))	PAINT (PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound))	PAINT (PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning and reducing compound))

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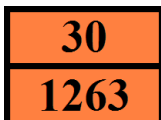
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Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •3Y

Transport by sea

Special provisions (IMDG) : 163, 223, 367, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

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, A72, A192
ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1

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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

Special provisions (ADN)	: 163, 367, 650
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 367, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. National regulations

UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC) above the 0.1% level of disclosure



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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

GB PIC regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed as a reportable poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This product contains no substance(s) listed as a reportable explosive precursor on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

This substance is not listed as a regulated poison on the Control of Poisons and Explosives Precursors Regulations

Drug Precursors Regulation (273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

15.1.2. Other Information

VOC content : 430 g/l

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

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Full text of H- and EUH-statements:

Flam. Liq. 3	Flammable liquids, Category 3
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
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), UK

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.

