Safety data sheet

according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

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

1.1 Product identifier

Trade name: DURALAC GREEN

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

Application of the substance / mixture
Anti-corrosive jointing compound
For industrial or professional use only

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Llewellyn Ryland Ltd
Haden Street, Birmingham B12 9DB, United Kingdom
Tel: +44 (0)121 440 2284
Fax: +44 (0)121 440 0281
Email: Technical@llewellynryland.co.uk

Importer:
AMI Sales
107 Forsyth Street, O'Connor
Western Australia, 6163
Tel: +61 (0)8 9331 0000 Fax: +61 (0)8 9314 2929
Email: ami@amisales.com.au

1.4 Emergency telephone number

Llewellyn Ryland Ltd, Tel: +44 (0)121 440 2284
(office hours only, 7am - 7pm)

1.4 Emergency telephone number

Tel: +61 (0)8 9331 0000
(Office hours only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification:

Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Acute 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1	H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling: The product is classified and labelled according to the GB-CLP regulation.

Hazard pictograms

GHS07 GHS09

Signal word Warning

Hazard-determining components of labelling:
maleic anhydride
phthalic anhydride
fatty acids, C14-18 and C16-18-unsatd.,maleated
cobalt(II) 2-ethylhexanoate

Hazard statements
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Other hazards

Results of PBT and vPvB assessment
The product contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Safety data sheet
according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

Trade name: DURALAC GREEN

Determination of endocrine-disrupting properties
The product contains no components considered to have endocrine disrupting properties according to REACH Article 57(f), Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixture
Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:		
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.No.: 01-2119485044-40	trizinc bis(orthophosphate) Aquatic Acute 1, H400; Aquatic Chronic 1, H410	25 - 50%
EC number: 918-481-9 Reg.No.: 01-2119457273-39	hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304, EUH066	10 - 25%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7	zinc oxide Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10 - 25%
CAS: 1308-38-9 EINECS: 215-160-9 Reg.No.: 01-2119433951-39	chromium(III)oxide substance with a workplace exposure limit	< 2.5%
CAS: 85-44-9 EINECS: 201-607-5 Index number: 607-009-00-4 Reg.No.: 01-2119457017-41	phthalic anhydride Resp. Sens. 1, H334; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	< 1%
CAS: 1313-27-5 EINECS: 215-204-7 Index number: 042-001-00-9 Reg.No.: 01-2119488038-30	molybdenum trioxide Carc. 2, H351; Eye Irrit. 2, H319; STOT SE 3, H335	< 1%
CAS: 85711-46-2 EC number: 701-043-4 Reg.No.: 01-2119976378-19	fatty acids, C14-18 and C16-18-unsatd.,maleated Skin Irrit. 2, H315; Skin Sens. 1, H317	< 1%
CAS: 136-52-7 EINECS: 205-250-6 Reg.No.: 01-2119524678-29	cobalt(II) 2-ethylhexanoate Repr. 1B, H360FD; Aquatic Acute 1, H400; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	< 1%
CAS: 108-31-6 EINECS: 203-571-6 Index number: 607-096-00-9 Reg.No.: 01-2119472428-31	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C 0.001 %	< 0.1%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information:
In case of accident or if you feel unwell seek medical advice immediately (show label or SDS where possible).

After inhalation:
Remove person to fresh air and keep comfortable for breathing.
Seek medical treatment in case of complaints.

After skin contact:
Remove contaminated clothes immediately, wash the affected skin thoroughly with plenty of water.
In case of irritation seek medical treatment.
Wash contaminated clothes before reuse.

Safety data sheet
according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

Trade name: DURALAC GREEN

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If irritation persists, get medical advice/attention.

After swallowing:
Rinse out mouth with water. If symptoms of indisposition persist, seek medical advice.
Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media:
Use extinguishing media suitable to surrounding conditions.
Carbon dioxide (CO_2), dry chemical powder, foam or water spray

Unsuitable extinguishing media: Full water jet

5.2 Special hazards arising from the substance or mixture
Exposure to decomposition products may be harmful to health.
Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters
Protective equipment:
In case of fire wear self-contained respiratory equipment and protective suit.
Do not inhale explosion gases or combustion gases.

Additional information
Evacuate area and remove all ignition sources.
Cool containers in the vicinity with water spray. Contain runoff to prevent entry into water or drainage systems.
Dispose of fire debris and contaminated firefighting water according to the regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Please notice instructions for person-related safety precautions, wear protective equipment (see Section 8).
Keep people at a distance and stay on the windward side.
Prevent formation of aerosols.
Ensure adequate ventilation.
Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions
Do not allow to enter sewers, surface or ground water.
Contain the spilled material by bunding.
Advise water authority in case of seepage into water course, sewage system or soil.

6.3 Methods and material for containment and cleaning up
Absorb with non-combustible absorbent material, (eg sand, diatomite, vermiculite).
Place into suitable and labelled containers for disposal.
Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Provide good ventilation/exhaustion at the workplace.

Safety data sheet
according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Prevent formation of aerosols.
Avoid any contact with skin, eyes and clothes.
Do not eat, drink or smoke when using this product.
Wash hands before breaks and at the end of work.

7.2 Conditions for safe storage, including any incompatibilities
Requirements to be met by storerooms and receptacles:
Store in tightly closed original packaging in a cool and well-ventilated place.
Protect from heat and direct sun.

Information about storage in one common storage facility:
Do not store food, beverages and animal feeding stuff in the storage area.
Store away from strong acids or strong oxidising agents.

Further information about storage conditions: Carefully close opened containers and store them upright.

7.3 Specific end use(s) Use only according to instructions.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 1308-38-9 chromium(III)oxide	
WEL	Long-term value: 0.5 mg/m³; as Cr
CAS: 1313-27-5 molybdenum trioxide	
WEL	Short-term value: 10 mg/m³, Long-term value: 5 mg/m³; as Mo
CAS: 136-52-7 cobalt(II) 2-ethylhexanoate	
WEL	Long-term value: 0.1 mg/m³; as Co; Carc, Sen
CAS: 108-31-6 maleic anhydride	
WEL	Short-term value: 3 mg/m³, Long-term value: 1 mg/m³; Sen

Regulatory information WEL (Great Britain): EH40/2020

DNELs:
Zinc oxide (CAS 1314-13-2):
Workers, long-term exposure - systemic effects, inhalation 5 mg/m³
Workers, long-term exposure - systemic effects, dermal 83 mg/kg bw/day
Consumers, long-term exposure - systemic effects, inhalation 2.5 mg/m³
Consumers, long-term exposure - local effects, inhalation 0.5 mg/m³
Consumers, long-term exposure - systemic effects, dermal 83 mg/kg bw/day
Consumers, long-term exposure - repeated, oral 8.83 mg/kg bw/day

PNECs:
Zinc oxide (CAS 1314-13-2):
Freshwater 20.6 µgZn/l, marine water 6.1 µgZn/l
Sediment freshwater 117.8 mgZn/kg, marine water 56.5 mgZn/kg
STP 100 µgZn/l; soil 35.6 mgZn/kg

8.2 Exposure controls
Appropriate engineering controls Provide sufficient ventilation, particularly in closed areas.

Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace.
Do not breathe gas/vapours/spray.
Remove contaminated clothing immediately and wash carefully before reuse.
Ensure that washing facilities are available at the workplace.
Be sure to clean skin thoroughly after work and before breaks.

Respiratory protection Use suitable respiratory protective device in case of insufficient ventilation.

Safety data sheet
according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Hand protection
Chemical resistant gloves
Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.
Material of gloves
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Goggles recommended during refilling.

Body protection
Protective clothing.
Protective clothing should be professionally laundered regularly.

Environmental exposure controls
Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Form:	Viscous liquid
Colour:	Green
Odour:	Characteristic
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	No data available.
Lower and upper explosion limit:	No data available.
Flash point:	> 60 - 93 °C (> 140 - 199.4 °F)
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
pH:	6
Viscosity	
dynamic at 25 °C (77 °F):	15000 - 25000 mPas (Brookfield RV 6, 5rpm)
Solubility	
water:	No data available.
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	No data available.
Density:	No data available.
Relative vapour density:	No data available.

9.2 Other information

Explosive properties:	Non explosive.
Oxidising properties:	No data available.

Information with regard to physical hazard classes:	Not relevant.

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under recommended transport or storage conditions.

10.2 Chemical stability Stable at ambient temperature and under normal conditions of use.

10.3 Possibility of hazardous reactions Stable at ambient temperature and under normal conditions of use.

Safety data sheet
according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

Trade name: DURALAC GREEN

10.4 Conditions to avoid Heat, direct sun exposure.

10.5 Incompatible materials Strong acids, strong oxidising agents

10.6 Hazardous decomposition products Decomposes at high temperatures may form toxic gases.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 7779-90-0 trizinc bis(orthophosphate)		
oral	LD50	> 5,000 mg/kg (rat) (OECD 401)
inhalative	LC50/4h	> 5.7 mg/l (rat) (OECD 403)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
oral	LD50	> 5,000 mg/kg (rat) (OECD 401)
dermal	LD50	> 2,000 mg/kg (rabbit) (OECD 402)
inhalative	LC50/4h	> 4,951 mg/m³ (rat) (OECD 403)
CAS: 1314-13-2 zinc oxide		
oral	LD50	> 5000 mg/kg (rat)
inhalative	LC50/4h	> 5.7 mg/l (rat)
CAS: 1308-38-9 chromium(III)oxide		
inhalative	LC50/4h	> 5.41 mg/l (rat) (OECD 403)
oral	LD50	> 5000 mg/kg (rat) (OECD 401)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards
Endocrine disrupting properties
The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f), Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
For the product there are no ecotoxicological data available.

CAS: 7779-90-0 trizinc bis(orthophosphate)	
NOEC	0.011 mgZn++/l (alga, Pseudokirchneriella subcapitata) (pH 8)
	0.099 mgZn++/l (alga, Pseudokirchneriella subcapitata) (pH 6)
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
LC50/96h	> 1000 mg/l (rainbow trout, Oncorhynchus mykiss) (OECD 203)

Safety data sheet
according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

Trade name: DURALAC GREEN

EC50/48h	> 1000 mg/l (water flea, Daphnia magna) (OECD 202)
EC50/72h	> 1000 mg/l (alga, Desmodesmus subspicatus) (OECD 201)

12.2 Persistence and degradability
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics: Readily biodegradable.
Degradation 80%: 28 days (OECD 301F)

12.3 Bioaccumulative potential Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics: log Kow 3

12.4 Mobility in soil Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics: Insoluble in water.

12.5 Results of PBT and vPvB assessment Not applicable

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation Transfer to a suitable container and arrange for collection by specialised disposal company.

Uncleaned packaging
Recommendation:
Disposal must be made according to official regulations.
Not completely emptied packaging is to be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trizinc bis(orthophosphate), zinc oxide)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trizinc bis(orthophosphate), zinc oxide), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trizinc bis(orthophosphate), zinc oxide)
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards	
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Hazard identification number (Kemler code):	90
14.7 Maritime transport in bulk according to IMO instruments	not applicable

Safety data sheet

according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

Trade name: DURALAC GREEN

UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIZINC BIS(ORTHOPHOSPHATE), ZINC OXIDE), 9, III

SECTION 15: Regulatory information

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

Control of Major Accident Hazards Regulations 2015 (COMAH)
Listed in Regulation: Hazardous to the Aquatic Environment
Number in Regulation: E1
List of substances subject to authorisation (UK Annex XIV)

UK REACH List of Restrictions (Annex XVII) Conditions of restriction: Number on list 3

UK REACH Substances of very high concern (SVHC) None of the substances are listed.

15.2 Chemical safety assessment A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrases
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H360FD May damage fertility. May damage the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.
EUH071 Corrosive to the respiratory tract.

Classification according to Regulation (EC) No 1272/2008
Classification according to Regulation (EC) No 1272/2008 as amended by GB-CLP. Regulation, UK SI 2019/720, and UK SI 2020/1567.
The classification of the mixture is generally based on the calculation method.

Further information:
Safety Data Sheet according to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law

Date of previous version: 29.03.2021

Abbreviations and acronyms:
CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EC-Number: European Community number
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
WEL: workplace exposure limit
DNEL: Derived No-Effect Level
EC50: maximal effective concentration, 50%
ErC50: median effective concentration for growth rate (algae)
LC50: lethal concentration, 50%
LD50: lethal dose, 50%

Safety data sheet

according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Printing date 27.02.2026 **Version 6.0** **Revision: 27.02.2026**

Trade name: DURALAC GREEN

NOEC: no observed effect concentration
OECD: Organisation for Economic Co-operation and Development
log Pow, Kow: partition coefficient (n-octanol/water)
PNEC: Predicted No-Effect Concentration
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent and very bioaccumulative properties
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources:
Safety data sheets of the components
ECHA (European Chemicals Agency)

Data compared to the previous version altered: Section 2,3,8,9,11,12,15,16