



since 1895

SAFETY DATA SHEET

(Conforming to 1907/2006/EC)

Product Name:

DURA-WALK CATALYST

SDS
Reference

Version No. 1

Initial issue date

February 24th 2016

Revision date

SECTION 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

1.1 Product Name	Dura-Walk Catalyst		
1.2 Relevant Use(s)/misuse(s)	Curing chemical		
1.3 SDS Supplier	The Garland Company UK Ltd Unit 5 Glevum Works Upton Street, Gloucester GL1 4LA, UK	Telephone: 01452 330646 Mobile: 07887 923 121 Website: www.garlandukltd.co.uk	
1.4 Emergency Telephone	44 (0)1452 330646 (Office hours)	Competent person e-mail: trevor@rising-hsande.co.uk	

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE MIXTURE

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Org. Perox. B H241
Skin Sen. 1 H317
Eye Irrit. 2 H319
Repr. 1B H360d
Aquatic Chronic 3 H412

2.1.2 Additional information

See section 16 for full text of H statements

2.2 LABELLING ELEMENTS

Pictogram(s):



Signal word

DANGER

Hazard statement(s)

H241 HEATING MAY CAUSE A FIRE OR EXPLOSION.
H317 MAY CAUSE AN ALLERGIC SKIN REACTION.
H319 CAUSES SERIOUS EYE IRRITATION.
H360d MAY DAMAGE THE UNBORN CHILD
H412 HARMFUL TO AQUATIC LIFE WITH LONG LASTING EFFECTS

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Precautionary statement(s)

- P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.
- P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. — NO SMOKING.
- P281 USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.
- P302+352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER
- P305+351+338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.
- P308+313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.
- P501 DISPOSE OF CONTENTS/CONTAINER TO HAZARDOUS OR SPECIAL WASTE COLLECTION SITE IN ACCORDANCE WITH LOCAL / REGIONAL / NATIONAL OR INTERNATIONAL REGULATIONS

THE PREPARATION CONTAINS SUBSTANCES THAT HAVE A WORKPLACE EXPOSURE LIMIT (WEL)

2.3 OTHER HAZARDS

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation

A MIXTURE OF PRGANIC SUBSTANCES

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
DICYCLOHEXYL PHTHALATE (REACH Reg. No. 01-2119978223-34-XXXX)	84-61-7	201-545-9	Skin Sens. 1 H317; Repr. 1B H360d; Aquatic Chronic 3 H412	25-50%
DIBENZOYL PEROXIDE (REACH Reg. No. 01-2119511472-50-XXXX)	94-36-0	202-327-6	Org. Perox. B H241; Skin Sens. 1 H317; Eye Irrit. 2 H319	25-50%

SECTION 4. FIRST AID MEASURES

4.1 Description of measures

- Inhalation** Remove casualty to fresh air and provide warmth and rest. . If necessary, seek medical advice.
- Skin contact** Immediately clean areas of skin affected with plenty of water. If necessary, seek medical advice.
- Eye contact** Wash out eye thoroughly with plenty of water until irritation subsides. If necessary (e.g. irritation persists), consult an eye specialist/ophthalmologist.
- Ingestion** Allow the patient to vomit on his own accord. Give copious water to drink; If necessary, seek medical advice.

4.2 Most important effects/symptoms

None known.

4.3 Immediate/special treatment

Treatment as described above.

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SECTION 5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing media** To suit local surroundings (e.g. water spray, carbon dioxide, sand, foam or chemical powder). Do not use halons.
- 5.2 Special hazards** CAUTION: re-ignition may occur. Sustains combustion. Risk of dust explosion. In the event of fire and/or explosion do not breathe fumes. Hazardous decomposition products formed under fire conditions. Carbon dioxide (CO₂). carbon monoxide. benzoic acid, benzene.
- 5.3 Advice for fire fighters** Wear self-contained breathing apparatus. Use water spray to cool unopened containers. Avoid run-off water entering the drains (e.g. use barriers)

SECTION 6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions** Adhere to personal protective measures. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Use only explosion-proof equipment. Keep away from sources of ignition- No smoking!
- 6.2 Environmental precautions** Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.
- 6.3 Methods and materials for cleaning up** Adhere to personal protective measures. Take up as appropriate, e.g. sweep or vacuum up, into tightly closed containers. Label container and dispose of as prescribed. Avoid dust formation. Keep contents moist. Confinement must be avoided.
- 6.4 Reference to other sections** See section 8 for personal protective equipment.

SECTION 7. HANDLING & STORAGE

- 7.1 Precautions for safe handling** When using, do not eat, drink or smoke. Do not breathe dust. Use only in well-ventilated areas. Keep product and empty container away from heat and sources of ignition. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep away from reducing agents (e.g. amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Confinement must be avoided. Do not allow to dry. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Prevention of fire and explosion. Avoid dust formation. Risk of dust explosion. Use only explosion-proof equipment. It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be excluded..
- 7.2 Conditions for safe storage** Store in accordance with the particular national regulations. Keep away from food, drink and animal feedingstuffs. Store in original container. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Store separate from other chemicals .Avoid temperatures above 25 °C. Keep away from heat and sources of ignition.
- 7.3. Specific end use(s)** Curing chemical

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Controls parameters** Occupational Exposure Limits (WELs) have been assigned (EH40/2011).
- | | | | | |
|--------------------|-----|----|-------------------|---------------------------------|
| STEL (15 min): | ppm | 15 | mg/m ³ | Data for dicyclohexyl phthalate |
| LTEL (8 hour TWA): | ppm | 5 | mg/m ³ | Data for dicyclohexyl phthalate |
| STEL (15 min): | ppm | 15 | mg/m ³ | Data for dibenzoyl peroxide |
| LTEL (8 hour TWA): | ppm | 5 | mg/m ³ | Data for dibenzoyl peroxide |
- 8.2 Exposure controls**
- Engineering controls** Provide adequate ventilation (e.g. local exhaust ventilation). Avoid the build-up of electrostatic charges.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection	Observe normal standards for handling chemicals. Do not eat, drink or smoke in the working area Wash hands before breaks and after work. Those with a history of sensitisation should take appropriate protective measures Wear personal protective equipment appropriate to the task (see below)
Eye protection	Safety goggles (i.e. EN 166 approved)
Skin protection	Neoprene or rubber gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Respiratory protection	If ventilation is insufficient, wear a NIOSH/OSHA respirator
Other protection	Overalls.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Basic physical and chemical properties**

Physical form	Solid
Colour	White
Odour	Mild
Odour threshold	Not determined
pH	Not applicable
Boiling pt / range	Not applicable °C
Melting pt / range	Not determined °C
Flash point	Not applicable °C
Flammability	Not applicable
Thermal decomposition	Not applicable
Evaporation rate	Not applicable
Explosion limits	Not determined
Auto-ignition temperature	Not determined
Decomposition temp.	Not applicable
Specific gravity	1.123g/cm ³ @ 20°C
Vapour pressure	Not applicable
Vapour density	Not applicable
Viscosity	Not applicable
Water solubility	Insoluble
Explosive properties	Not determined
Oxidising properties	Not determined
Partition coeff. Log_{Oct/water}	4.82 @ 25°C
9.2 Other information	Bulk density: 640 kg/m ³ . active oxygen: 3.3% peroxide content: 50% SADT: 55%

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	Hazardous polymerisation does not occur. Decomposes on heating.
10.2 Chemical stability	SADT – (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above 55°C.
10.3 Hazardous reactions	Hazardous polymerisation does not occur
10.4 Conditions to avoid	Avoid temperatures above 25 °C. Avoid shock and friction. Confinement must be avoided. Do not allow to dry. Explosive when dry.
10.5 Incompatible material	Rust. Iron. Copper. Acids and bases. Heavy metal compounds. Reducing agents. Reacts violently in contact with acids, amines, driers, polymerisation accelerators and easily oxidized materials.
10.6 Hazardous decomposition products	Not determined

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 information on toxicological effects**

Acute toxicity	LD ₅₀ rat (oral)	>5000 mg/kg	Data for dibenzoyl peroxide
	LC ₅₀ rat (inhal)	>20000 mg/l	Data for dibenzoyl peroxide
Dermal compatibility	No data available.		
Mucous membrane compatibility	No data available.		
Further information	Skin contact sensitization is possible.		

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	LC ₅₀ Fish	0.06 mg/l	96h, Data for dibenzoyl peroxide 78%
	EC ₅₀ Daphnia magna	0.11 mg/l	48h, Data for dibenzoyl peroxide 78%
	EC ₅₀ Algae	0.06 mg/l	72h, Data for dibenzoyl peroxide 78%
12.2 Degradability	Readily biodegradable.		
12.3 Bioaccumulative potential	Not determined		
12.4 Mobility in soil	Not determined		
12.5 PBT/vPvB assessment	Not determined		
12.6 Other adverse effects	Do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.		

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment measures**

Advice on disposal	In accordance with national and local authority regulations, e.g. The Hazardous Waste (England & Wales) Regulations 2005. Treat empty containers in the same way as the product or if possible wash out thoroughly and recycle.
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SECTION 14. TRANSPORT INFORMATION

14.1 United Nations number ADR, IMDG, IATA	UN 3106
14.2 Proper shipping name ADR, IMDG, IATA	ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYLPEROXIDE)
14.3 Transport class(s) ADR, IMDG, IATA	5.2
14.4 Packing group ADR, IMDG, IATA	
14.5 Environmental hazards ADR, IMDG, IATA	The product should not be marked as a marine pollutant
14.6 Special procedures ADR, IMDG, IATA	None known.
14.7 Transport in bulk ADR, IMDG, IATA	Not applicable



SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations	The product is classified in accordance with EC Regulation 1272/2008 (CLP), Other regulatory information and provisions are not applicable for this product.
15.2 Chemical safety assessment	Not applicable

SECTION 16. OTHER INFORMATION

Further information

Hazard statements referred to in sections 2-15

H241: Heating may cause a fire or explosion
H317: May cause an allergic skin reaction
H319: Causes serious eye irritation.
H360d: May damage the unborn child
H412: Harmful to aquatic life with long lasting effects

Sources of data Other suppliers' safety data sheets, EH40(2011)

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Data sheet prepared by Rising HS&E Services.