Revision Date: 02-2011

Revision: 1

Supersedes Date: 07-2010

SAFETY DATA SHEET
DURAWALK FC240 TOP COAT

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name DURAWALK FC240 TOP COAT

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

Identified uses Anti-skid waterproof coating.

1.3. Details of the supplier of the safety data sheet

Supplier:

Garland Company UK Ltd,
Unit 5, Glevum Works,
Upton Street,
Gloucester GL1 4LA
UK
Tel: 01452 330 646
Fax: 01452 330 657
email: info@garlandukltd.co.uk

1.4. Emergency telephone number

01452 330646
09:00 - 17:00 Monday to Friday

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Xn;R20. R43. R10, R52/53.

Human Health

Harmful by inhalation. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

Environment

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Physical And Chemical Hazards

Flammable. Vapours are heavier than air and may travel along the floor and in the bottom of containers.

2.2. Label elements

Contains: ISOPHORONEDIISOCYANATE HOMOPOLYMER

Labelling

Harmful

Risk Phrases

R10	Flammable.
R20	Harmful by inhalation.
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S24	Avoid contact with skin.
S37	Wear suitable gloves.
S51	Use only in well-ventilated areas.
S60	This material and its container must be disposed of as hazardous waste.

P4 Contains isocyanates. See information supplied by the manufacturer.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

1,2,4-TRIMETHYLBENZENE		1-5%
CAS-No.: 95-63-6	EC No.: 202-436-9	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
Acute Tox. 4 - H332	Xn;R20
Skin Irrit. 2 - H315	Xi;R36/37/38
Eye Irrit. 2 - H319	N;R51/53
STOT Single 3 - H335	
Aquatic Chronic 2 - H411	

2-METHOXY-1-METHYLETHYL ACETATE		10-30%
CAS-No.: 108-65-6	EC No.: 203-603-9	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10

ISOPHORONE DI-ISOCYANATE		< 1%
CAS-No.: 4098-71-9	EC No.: 223-861-6	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 3 - H331	T;R23
Skin Irrit. 2 - H315	R42/43
Eye Irrit. 2 - H319	Xi;R36/37/38
Resp. Sens. 1 - H334	N;R51/53
Skin Sens. 1 - H317	
STOT Single 3 - H335	
Aquatic Chronic 2 - H411	

ISOPHORONEDIISOCYANATE HOMOPOLYMER		10-30%
CAS-No.: 53880-05-0	EC No.:	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Skin Sens. 1 - H317	R43.

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.		10-30%
CAS-No.: 64742-95-6	EC No.: 265-199-0	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	Xn;R65.
STOT Single 3 - H335	Xi;R37.
Asp. Tox. 1 - H304	N;R51/53.
Aquatic Chronic 2 - H411	R10.

MESITYLENE		1-5%
CAS-No.: 108-67-8	EC No.: 203-604-4	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
STOT Single 3 - H335	Xi;R37
Aquatic Chronic 2 - H411	N;R51/53

PROPYLBENZENE		< 1%
CAS-No.: 103-65-1	EC No.: 203-132-9	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
STOT Single 3 - H335	Xn;R65
Asp. Tox. 1 - H304	Xi;R37
Aquatic Chronic 2 - H411	N;R51/53

XYLENE		1-5%
CAS-No.: 1330-20-7	EC No.: 215-535-7	

Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
Acute Tox. 4 - H312	Xn;R20/21
Acute Tox. 4 - H332	Xi;R38
Skin Irrit. 2 - H315	

The Full Text for all R-Phrases is Hazard Statements are Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. Onset of symptoms may be delayed.

Ingestion

Rinse mouth thoroughly. Drink plenty of water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Onset of symptoms may be delayed.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation.

Irritation of nose and throat.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin Contact

Prolonged skin contact may cause redness, irritation and dry skin. May cause allergic skin disorders in sensitive individuals.

Eye Contact

Splashes may irritate.

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

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products

In case of fire, toxic gases may be formed.

Unusual Fire & Explosion Hazards

FLAMMABLE.

Specific Hazards

In case of fire, toxic gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water. Keep run-off water out of sewers and water sources. Dike for water control.

Protective Measures In Fire

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Provide good ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Persons susceptible to allergic reactions should not handle this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

Storage Class

Flammable liquid storage.

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

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1,2,4-TRIMETHYLBENZENE	WEL	25 ppm	125 mg/m3			
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm	274 mg/m3	100 ppm	548 mg/m3	Sk
MESITYLENE	WEL	25 ppm	125 mg/m3			
XYLENE	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk

WEL = Workplace Exposure Limit.
Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective Equipment

Engineering Measures

Provide adequate ventilation.

Respiratory Equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Seek advice from supervisor on the companies' respiratory protection standards.

Hand Protection

Use protective gloves made of: Neoprene. Nitrile. or Polyvinyl chloride (PVC). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye Protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.

Hygiene Measures

Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid
Colour	Colourless
Solubility	Reacts slowly with water.
Initial Boiling Point and Boiling Range	146°C
Relative Density	1.21
Evaporation Rate	Moderate.
Flash Point (°C)	40°C
Auto Ignition Temperature (°C)	315°C
Flammability Limit - Lower(%)	1.5%
Flammability Limit - Upper(%)	10.8%

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reacts slowly with water.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

10.6. Hazardous decomposition products

In case of fire, toxic gases may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Harmful by inhalation.

Ingestion.

May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin Contact

May cause sensitisation by skin contact.

Eye Contact

Splashes may irritate.

Medical Considerations

Skin disorders and allergies.

Name	**XYLENE**
Toxic Dose 1 - LD 50	3523 - 7800 mg/kg (oral rat)
Toxic Conc. - LC 50	6350 mg/l/4h (inh-rat)
Name	**PROPYLBENZENE**
Toxic Dose 1 - LD 50	6040 mg/kg (oral rat)
Name	**MESITYLENE**
Toxic Dose 1 - LD 50	7000 mg/kg (oral rat)
Toxic Dose 2 - LD 50	5000 mg/kg (oral-mouse)
Toxic Conc. - LC 50	24000 mg/l/4h (inh-rat)
Name	**ISOPHORONE DI-ISOCYANATE**
Toxic Dose 1 - LD 50	> 1269 mg/kg (oral rat)
Toxic Dose 2 - LD 50	>2645 mg/kg (oral-mouse)
Toxic Conc. - LC 50	0.123 - 0.67 mg/l/4h (inh-rat)
Name	**1,2,4-TRIMETHYLBENZENE**
Toxic Dose 1 - LD 50	5000 mg/kg (oral rat)
Name	**2-METHOXY-1-METHYLETHYL ACETATE**
Toxic Dose 1 - LD 50	8532 mg/kg (oral rat)
Toxic Dose 2 - LD 50	750 mg/kg (ipr-mouse)
Name	**ISOPHORONEDIISOCYANATE HOMOPOLYMER**
Toxic Dose 1 - LD 50	5490 mg/kg (oral rat)
Toxic Conc. - LC 50	123 mg/l/4h (inh-rat)
Name	**LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT**
Toxic Dose 1 - LD 50	8400 mg/kg (oral rat)
Toxic Conc. - LC 50	> 5.2 mg/l/4h (inh-rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

12.2. Persistence and degradability

Degradability:

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Bioaccumulative Potential:

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

12.6. Other adverse effects

None known.

Name	**XYLENE**
LC 50, 96 Hrs, Fish mg/l	13.5 - 1090
IC 50, 72 Hrs, Algae, mg/l	10
Name	**PROPYLBENZENE**
LC 50, 96 Hrs, Fish mg/l	40 - 60
Name	**MESITYLENE**
LC 50, 96 Hrs, Fish mg/l	12.52
EC 50, 48 Hrs, Daphnia, mg/l	6
Name	**ISOPHORONE DI-ISOCYANATE**
LC 50, 96 Hrs, Fish mg/l	1.8 - 4
EC 50, 48 Hrs, Daphnia, mg/l	1.8
Name	**1,2,4-TRIMETHYLBENZENE**
LC 50, 96 Hrs, Fish mg/l	7.72
EC 50, 48 Hrs, Daphnia, mg/l	3.6
Name	**2-METHOXY-1-METHYLETHYL ACETATE**
LC 50, 96 Hrs, Fish mg/l	100 - 180
EC 50, 48 Hrs, Daphnia, mg/l	> 405
Name	**LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.**
LC 50, 96 Hrs, Fish mg/l	9.22 - 119
EC 50, 48 Hrs, Daphnia, mg/l	6.14
IC 50, 72 Hrs, Algae, mg/l	3.29 - 56

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

14.2 UN Proper shipping name

Proper Shipping Name	PAINT

14.3 Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3

Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III

ICAO Packing group	III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS	F-E, S-E
Emergency Action Code	•3YE
Hazard No. (ADR)	30
Tunnel Restriction Code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Risk phrases amended. Format updated in accordance with Regulation (EU) No. 453/2010.

Revision Date	02-2011
Revision	1
Supersedes Date	07-2010

Risk Phrases In Full

R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R23	Toxic by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R42/43	May cause sensitisation by inhalation and skin contact.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

Hazard Statements In Full

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.